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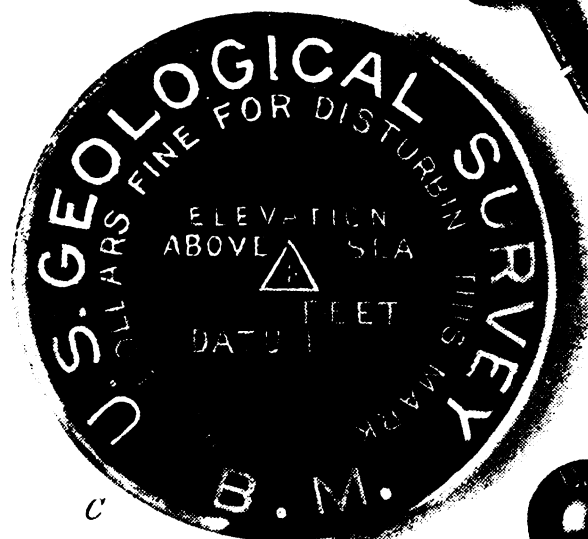
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BULLETIN 566

RESULTS OF SPIRIT LEVELING
IN UTAH

1897 TO 1914, INCLUSIVE

R. B. MARSHALL, CHIEF GEOGRAPHER



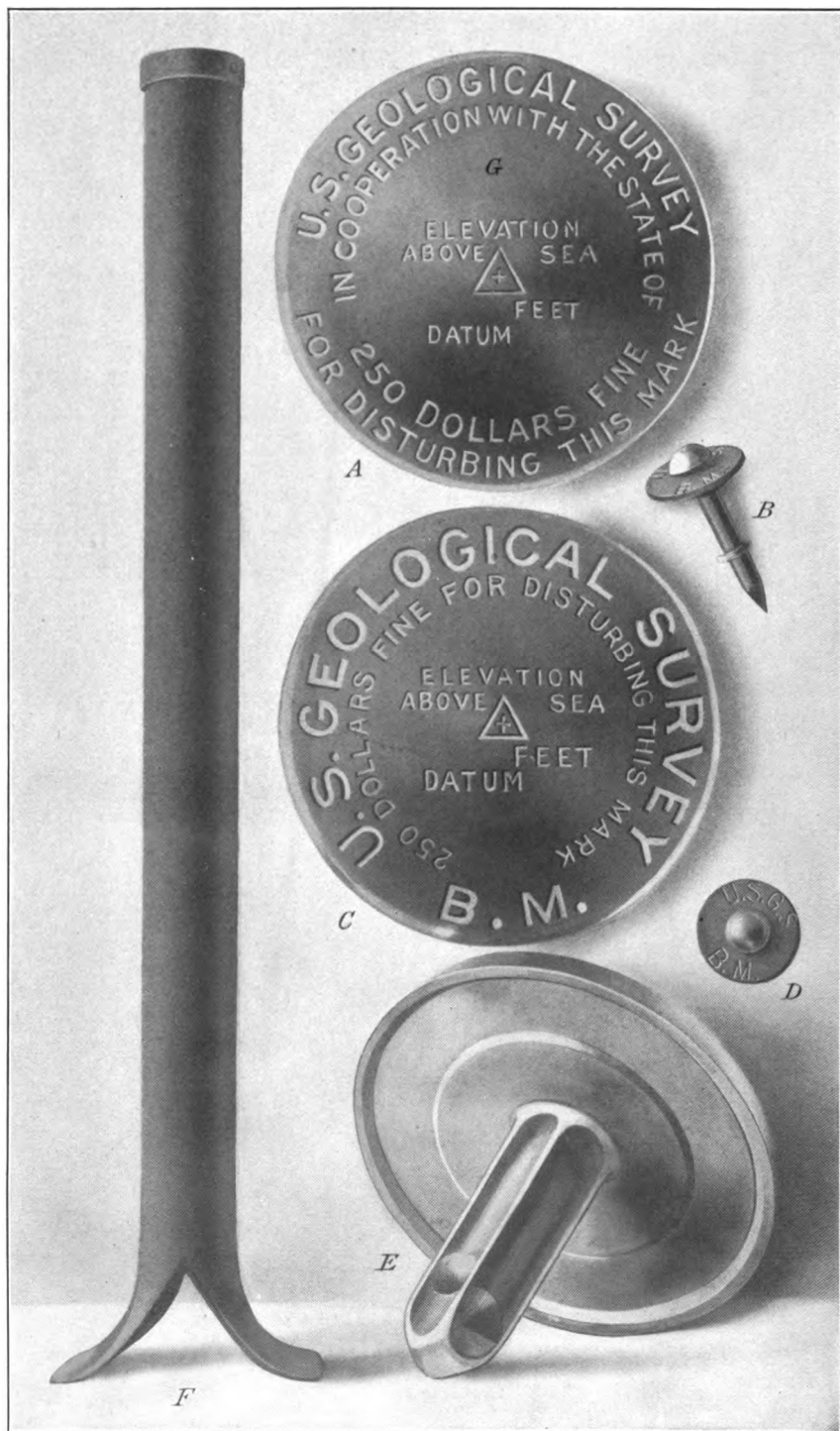
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GEOLOGICAL SURVEY BENCH MARKS.

A, Tablet used in cooperating States. The State name is inserted at *G*.
B and *D*, Copper temporary bench mark, consisting of a nail and copper washer.
A, *C*, and *E*, Tablets for stone or concrete structures.
F, Iron post used where there is no rock.

RESULTS OF SPIRIT LEVELING IN UTAH, 1897 TO 1914, INCLUSIVE.

R. B. MARSHALL, Chief Geographer.

INTRODUCTION.

Previous publication.—The results of spirit leveling previously published in Bulletin 489, containing descriptions and elevations of bench marks established in Utah from 1897 to 1910, inclusive, and based on the 1911 adjustment, have been corrected to agree with the 1912 adjustment of precise leveling of the Coast and Geodetic Survey and are here republished, together with all results of spirit leveling by the United States Geological Survey since 1910. The elevations are likely to be changed but slightly by any future adjustment.

Personnel.—The field work previous to 1903 was done under the general direction of R. U. Goode, geographer; that for 1903 to 1906, inclusive, under E. M. Douglas, geographer; that for 1907 under R. B. Marshall, geographer; and the later work under T. G. Gerdine and G. R. Davis, geographers, under the general direction of R. B. Marshall, chief geographer. The names of the respective levelmen are given in the introductions to the several lists. The office work of computation, adjustment, and preparation of lists was done mainly by S. S. Gannett, geographer, under the general direction of E. M. Douglas, geographer.

Classification.—No precise leveling has been done by the United States Geological Survey in this State. For primary lines standard Y levels are used; lines are run in circuits or are closed on precise lines, with an allowable closing error in feet represented by $0.05\sqrt{D}$, in which D is the length of the circuit in miles, sufficient care being given the work to maintain this standard. For circuit closures careful office adjustments are made, the small outstanding errors being distributed over the lines.

Bench marks.—The standard bench marks are of two forms. The first form is a circular bronze or aluminum tablet (*C* and *E*, Pl. I), 3.5 inches in diameter and one-quarter inch thick, having a 3-inch stem, which is cemented in a drill hole in solid rock in the wall of some public building, a bridge abutment, or other substantial masonry

structure. The second form (*F*, Pl. I), used where masonry or rock is not available, consists of a hollow wrought-iron post 3.5 inches in outer diameter and 4 feet in length, which is set about 3 feet in the ground. The bottom is spread out to a width of 10 inches, in order to give a firm bearing on the earth. A bronze or aluminum-bronze cap is riveted upon the top of the post. A third style of bench mark, with abbreviated lettering (*B* and *D*, Pl. I), is used for unimportant points. This consists of a special copper nail 1.5 inches in length driven through a copper washer seven-eighths inch in diameter. The tablets, as well as the caps on the iron posts, are appropriately lettered, and State cooperation is indicated by the addition of the State name (*G*, Pl. I).

The numbers stamped on the bench marks described in the following pages represent the elevations to the nearest foot as determined by the levelman. These numbers are stamped with $\frac{1}{8}$ -inch steel dies on the tablets or post caps, to the left of the word "FEET." The office adjustment of the notes and the reduction to mean sea-level datum may so change some of the figures that the original markings are 1 or 2 feet in error. It is assumed that engineers and others who have occasion to use the bench-mark elevations will apply to the Director of the United States Geological Survey, at Washington, D. C., for the adjusted values, and will use the markings as identification numbers only.

Datum.—All United States Geological Survey elevations are referred to mean sea level, which is the level that the sea would assume if the influence of winds and tides were eliminated. This level is not the elevation determined from the mean of the highest and the lowest tides, nor is it the half sum of the mean of all the high tides and the mean of all the low tides, which is called the half-tide level. *Mean sea level is the average height of the water, all stages of the tide being considered.* It is determined from observations made by means of tidal gages placed at stations where local conditions, such as long, narrow bays, rivers, and like features, will not affect the height of the water. To obtain even approximately correct results, these observations must extend over at least one lunar month, and if accuracy is desired they must extend over several years. At ocean stations the half-tide level and the mean sea level usually differ but little. It is assumed that there is no difference between the mean sea levels determined from observations in the Atlantic Ocean, the Gulf of Mexico, and the Pacific Ocean.

The connection with tidal stations for bench marks in certain areas that lie at some distance from the seacoast is still uncertain, and this fact is indicated by the addition of a letter or word to the right of the word "DATUM" on tablets or posts. For such areas corrections for published results will be made from time to time as the precise-level

lines of the United States Geological Survey or other Government organizations are extended.

Topographic maps.—Maps of the following quadrangles, wholly or partly in Utah, have been published by the United States Geological Survey up to April 1, 1915. They may be obtained for 10 cents each or \$3 for 50, on application to the Director of the Survey, at Washington, D. C.

Abajo (Utah-Colorado).
Ashley (Utah-Colorado).¹
Beaver.
Bingham mining.
Coalville (Utah-Wyoming).²
Cottonwood special.
East Tavaputs (Utah-Colorado).
Escalante.
Fish Lake.
Fish Springs.
Frisco special.
Gilbert Peak (Utah-Wyoming).
Hayden Peak (Utah-Wyoming).³
Henry Mountains.
Iron Springs special.
Jensen (Utah-Colorado).
Kanab.

La Sal (Utah-Colorado).
Manti.
Marsh Peak (Utah-Wyoming).¹
Park City special.
Pioche (Nevada-Utah).
Price River.
Randolph.
St. George.
Salt Lake.²
San Rafael.
Sevier Desert.
Strawberry Valley.²
Sunnyside.
Tintic mining.
Tintic special.
Tooele Valley.
Uinta.³

PRIMARY LEVELING.

Randolph and Saleratus Pass quadrangles.

RICH COUNTY.

The elevations in the following list are part of the leveling in 1909 in Idaho, Utah, and Wyoming, and are based on a bench mark of the United States Coast and Geodetic Survey, near Onyx, Bannock County, Idaho, described as follows: "Onyx, 1 mile north of, near signboard '1 mile to Onyx,' west of third telegraph pole south of milepost 197, west of track, 24 feet west of right of way fence, red sandstone post 6 feet long by 6 inches square, set in ground; bottom of square hole cut in top, marked "U. S. □ C. S." The elevation of this bench mark is accepted as 4,620.171 feet above mean sea level. From Onyx the line was run over the Oregon Short Line R. R. to a point 3.5 miles south of Montpelier, thence south by road via Laketown and Randolph, Utah, to Evanston, Wyo., closing on the Coast and Geodetic Survey bench mark at that point.

The leveling was done in 1909 by L. F. Biggs, with the exception of two bench marks in the Saleratus Pass quadrangle set by E. W. Hills in 1897. The closure errors of this line and circuits are excessive.

¹ Marsh Peak sheet shows part of Ashley quadrangle on larger scale.

² Coalville and Strawberry Valley sheets show parts of Salt Lake quadrangle on larger scale.

³ Gilbert Peak and Hayden Peak sheets show parts of Uinta quadrangle on larger scale.

Additional elevations will be found in the Wyoming lists for the Randolph and Saleratus Pass quadrangles.

RANDOLPH QUADRANGLE.¹

[Latitude 41° 30'-42°; longitude 111°-111° 30'.]

From point near South Eden south along road through Laketown and Randolph to Woodruff.

	Feet.
South Eden, 1.6 miles north of, east side of road, on bowlder, painted "5937 B. M. 79;" chisel point.....	5, 939. 37
South Eden, 700 feet north of house, northeast corner of corral, west side of road; iron post stamped "5983 B 1909 C 1".....	5, 985. 239
South Eden, 2.1 miles south of, east side of road, north end of steep grade, 100 feet south of old road down to lake, on bowlder painted "5940 B. M. 82;" chisel point.....	5, 942. 22
Laketown, 4 miles north of, north end of grove of poplar trees, opposite mouth of canyon, east edge of road, 25 feet east of lake; iron post stamped "5929 B 1909 D 1".....	5, 931. 050
Laketown, 1.7 miles north of, fifth tree from north end of row of poplar trees, opposite log dam, in base of 30-inch poplar tree; spike with aluminum tag stamped "5946 B. M. 85".....	5, 948. 61
Laketown, northeast corner of Irwin's brick store, 4 feet above ground; aluminum tablet stamped "5988 B 1909 E 1".....	5, 990. 679
Laketown, 2.7 miles south of, 1,000 feet east of creek where road makes sharp turn to east, south side of road, on bowlder painted "6336 B. M. 88;" chisel point.....	6, 341. 83
Laketown, 6.4 miles south of, east side of road, 150 feet north of forks of road on summit of ridge between Laketown and Randolph; iron post stamped "7129 B 1909 F 1".....	7, 131. 327
Laketown, 8.6 miles south of, 6.3 miles north of Randolph, west side of road, opposite three small bold hills, on bowlder painted "6586 B. M. 92;" chisel point.....	6, 588. 44
Randolph, 5.7 miles north of, 600 feet south of Middle Fork of Otter Creek, 50 feet west of spring, west side of road; iron post stamped "6504 B 1909 G 1".....	6, 506. 509
Randolph, 4 miles north of, south bank of South Fork of Otter Creek, 10 feet west of road, on bowlder painted "6487 B. M. 93;" chisel point.....	6, 489. 71
Randolph, 2.2 miles north of, northeast corner of field, at intersection of Logan-Randolph roads; iron post stamped "6407 B 1909 H 1".....	6, 410. 149
Randolph, northeast corner of brick schoolhouse, 3 feet above ground; aluminum tablet stamped "6286 B 1909 I".....	6, 288. 722
Randolph, 3.2 miles south of, east side of road, southwest corner of field belonging to Mrs. Mark Kennedy, north bank of irrigation ditch; iron post stamped "6265 B 1909 2".....	6, 267. 790
Woodruff, 4.3 miles north of, 6.3 miles south of Randolph, on small rise, 1,500 feet northwest of log cabin, opposite braced telephone pole; iron post stamped "6302 B 1909 3".....	6, 305. 819
Woodruff, northeast corner of brick schoolhouse, 4 feet above ground; aluminum tablet stamped "6342 B 1909 4".....	6, 344. 584
From Randolph northeast to fork of road 11.5 miles southwest of Cokeville, Wyo.	
Randolph, 3.1 miles north of, 500 feet south of D. J. Jackson's ranch house, 150 feet north of lane, east edge of road; iron post stamped "6255 B 1909 11".....	6, 257. 996

¹ For additional elevations in this quadrangle see the Wyoming list, Bull. 558.

Randolph, 6.1 miles north of, 300 feet north of gate to Ed. Porters's ranch house, east edge of road, at fence line; iron post stamped "6287 B 1909 12"	Feet. 6, 289. 701
Randolph, 8.1 miles north of, at junction of Sage-Cokeville road, 250 feet west of Sage Creek schoolhouse, west edge of road; iron post stamped "6256 B 1909 13"	6, 258. 463
Sage Creek schoolhouse, 3.2 miles north of, east edge of road at northeast corner of field fence; iron post stamped "6237 B 1909 14"	6, 239. 100
Sage Creek schoolhouse, 4.3 miles north of, 1 mile south of Sixmile Creek, 15 feet east of road, on bowlder painted "6234 B. M. 125;" chisel point..	6, 236. 11
Sixmile Creek, 0.5 mile north of, where road turns around point of hill, east edge of road, on fence line; iron post stamped "6214 B 1909 15"	6, 216. 808
Sixmile Creek, 3.5 miles north of, 0.3 mile north of second-class road through Beckwith ranch, at junction of Cokeville and South Eden roads, 20 feet east of road; iron post stamped "6221 B 1909 16"	6, 223. 697
Sixmile Creek, 6.6 miles north of, 3.4 miles north of second-class road through Beckwith ranch, 3 miles north of junction of South Eden and Cokeville roads, 20 feet east of road, 1,700 feet south of junction of road leading west; iron post stamped "6220 B 1909 17"	6, 222. 631

SALEERATUS PASS QUADRANGLE.¹

[Latitude 41°-41° 30'; longitude 111°-111° 30'.]

From point near Woodruff southeast along road to Evanston, Wyo.

Woodruff, 3.8 miles southeast of, east end of lane, east end of marsh, at junction of road south, northeast corner of field; iron post stamped "6305 B 1909 5"	6, 307. 808
Woodruff, 6.9 miles southeast of, east side of road, on summit of rise, 2 miles north of small lake; iron post stamped "6353 B 1909 6"	6, 356. 237
Woodruff, 8.9 miles southeast of, 150 feet east of small lake, opposite rocky point, on bowlder painted "6440 B. M. 110;" chisel point.	6, 443. 05
Woodruff, 9.6 miles southeast of, 150 feet south of junction of road east, 1 mile south of lake, 50 feet west of road; iron post stamped "6464 B 1909 7"	6, 466. 836
Woodruff, 12.5 miles southeast of, 10 miles northwest of Evanston, east side of road, 1,500 feet south of log house, 150 feet west of irrigation ditch; iron post stamped "6574 B 1909 8"	6, 577. 742

From point 13.5 miles south of Evanston, Wyo., northwest 3.25 miles.

Evanston, 13.5 miles south of, 5 feet from wagon road, 200 yards west of sheep bridge and ford across Yellow Creek, 100 feet south of road fork; iron post stamped "7009 Evan"	7, 010. 606
Evanston, 10.25 miles southwest of, 20 feet northwest of northwest corner of Wright's ranch house, west of Yellow Creek, 0.5 mile west of south group of Needle Rocks; iron post stamped "6892 Evan"	6, 893. 431

Desert Lake, Meab, Mount Bartles, Mount Waas, Nephi, Price, Provo, Scofield, Sunnyside, Tidwell, Westwater, and Woodside quadrangles.**CARBON, EMERY, SALT LAKE, UTAH, AND WASATCH COUNTIES.**

The elevations in the following list were determined by a double line of primary leveling and constitute the Utah portion of the results of a line extending from Salt Lake, Utah, along the Denver & Rio Grande R. R. to Grand Junction, Colo. Corrections have been

¹ For additional elevations in this quadrangle see the Emory quadrangle, Wyoming list, Bull. 558.

applied as in precise leveling, including orthometric corrections and adjustment of closure error of about 1 foot. The results of a single unchecked primary line through the Harper, Desert Lake, and Price quadrangles are also included in this list. The same corrections which were applied to the double line have also been applied to this line.

The leveling was done in 1910 by L. F. Biggs. Additional leveling in Price quadrangle was done in 1912 by L. B. Glasgow, and in 1914 by C. Schnurr.

PROVO QUADRANGLE.

[Latitude 40°-40°30'; longitude 111° 30'-112°.]

From Riverton south along Denver & Rio Grande R. R. to Thistle.

	Feet.
Riverton, 2.5 miles south of, in base of milepost 56; spike with aluminum tag stamped "4434"	4, 435. 34
Oliver, in front of station; top of east rail	4, 450. 9
Riverton, 3.5 miles south of, in base of milepost 57; spike with aluminum tag stamped "4449"	4, 450. 37
Riverton, 4.5 miles south of, in base of milepost 58; spike with aluminum tag stamped "4443"	4, 444. 00
Riverton, 5.5 miles south of, in base of milepost 59; spike with aluminum tag stamped "4464"	4, 464. 85
Gravon, in front of station; top of east rail.....	4, 474. 0
Riverton, 6.5 miles south of, southeast corner of concrete bridge over Jordan River, 6 feet east of railroad track, opposite intake of canal; aluminum tablet stamped "4489-6"	4, 489. 671
Riverton, 7.5 miles south of, in base of milepost 61; spike with aluminum tag stamped "4521"	4, 521. 83
Lehi, 3 miles north of, in base of milepost 62; spike with aluminum tag stamped "4543"	4, 544. 42
Lehi, 2 miles north of, in base of milepost 63; spike with aluminum tag stamped "4542"	4, 542. 86
Lehi, 1 mile north of, in base of milepost 64; spike with aluminum tag stamped "4543"	4, 544. 50
Lehi, opposite ticket office, in floor of platform; spike	4, 553. 32
Lehi, east face of schoolhouse, south side of main entrance, 4 feet above ground, in cement; aluminum tablet stamped "4560-7"	4, 561. 775
Lehi, 1 mile south of, in base of signpost "Station 1 mile;" spike with aluminum tag stamped "4526"	4, 527. 57
Lehi, 2.5 miles south of, in base of milepost 67; spike with aluminum tag stamped "4523"	4, 524. 76
Lehi, 3.5 miles south of, in base of milepost 68; spike with aluminum tag stamped "4558"	4, 559. 56
American Fork, 200 feet south of station, 50 feet north of road crossing, 10 feet east of track, south side of concrete culvert of irrigation ditch; aluminum tablet stamped "4565-8"	4, 565. 980
American Fork, in front of station; top of east rail.....	4, 566. 2
American Fork, 0.5 mile south of, in base of milepost 69; spike with aluminum tag stamped "4550"	4, 551. 64
American Fork, 1.5 miles south of, in base of milepost 70; spike with aluminum tag stamped "4514"	4, 515. 59

American Fork, 2.5 miles south of, in base of milepost 71; spike with aluminum tag stamped "4495".....	Feet. 4, 496. 60
Geneva, west edge of railroad grade, southwest corner of concrete abutment 706A, 50 feet east of mouth of small creek 150 feet south of section house; aluminum tablet stamped "4496-9".....	4, 497. 204
Utah Lake; surface of water July 20, 1910, 11 a. m.....	4, 489. 0
Geneva, 1.2 miles south of, in base of milepost 73; spike with aluminum tag stamped "4525".....	4, 526. 41
Geneva, 2.2 miles south of, in base of milepost 74; spike with aluminum tag stamped "4536".....	4, 537. 34
Geneva, 3.2 miles south of, in base of milepost 75; spike with aluminum tag stamped "4544".....	4, 544. 88
Geneva, 4.2 miles south of, in base of milepost 76; spike with aluminum tag stamped "4544".....	4, 544. 90
Geneva, 5.2 miles south of, in base of milepost 77; spike with aluminum tag stamped "4546".....	4, 547. 77
Lakota, 1,100 feet south of station signpost, 50 feet east of railroad right of way, southwest corner of concrete bridge over irrigation canal; aluminum tablet stamped "4551-11".....	4, 552. 657
Provo, 3.4 miles north of, in base of milepost 78; spike with aluminum tag stamped "4548".....	4, 549. 40
Provo, 2.4 miles north of, in base of milepost 79; spike with aluminum tag stamped "4541".....	4, 541. 93
Provo, 1.4 miles north of, in base of milepost 80; spike with aluminum tag stamped "4528".....	4, 529. 58
Provo, 0.4 mile north of, in base of milepost 81; spike with aluminum tag stamped "4519".....	4, 520. 38
Provo, 200 feet north of Denver & Rio Grande R. R. station, southwest corner of Z. C. M. I. building, 4 feet above ground, in brick wall; aluminum tablet stamped "4520-12".....	4, 521. 511
Provo, west face of post-office building, 3 feet south of main entrance, on top of coping above basement window; aluminum tablet stamped "4552-13".....	4, 553. 098
Provo, 0.7 mile south of, in base of milepost 82; spike with aluminum tag stamped "4517".....	4, 518. 68
Provo, 1.7 miles south of, in base of milepost 83; spike with aluminum tag stamped "4506".....	4, 507. 90
Provo, 2.7 miles south of, in base of milepost 84; spike with aluminum tag stamped "4498".....	4, 499. 44
Springville, 1.7 miles north of, northwest corner of concrete abutment of bridge 693A; aluminum tablet stamped "4503-14".....	4, 504. 820
Springville, 1.4 miles north of, in base of milepost 86; spike with aluminum tag stamped "4547".....	4, 548. 93
Springville, west face of Denver & Rio Grande R. R. station, 5 feet from entrance to waiting room, 4 feet above ground; aluminum tablet stamped "4561-15".....	4, 562. 455
Springville, 0.6 mile south of, in base of milepost 87; spike with aluminum tag stamped "4576".....	4, 577. 22
Springville, 1.6 miles south of, in base of milepost 88; spike with aluminum tag stamped "4628".....	4, 629. 82
Springville, 2.6 miles south of, in base of milepost 89; spike with aluminum tag stamped "4679".....	4, 680. 26
Springville, 3.6 miles south of, in base of milepost 90; spike with aluminum tag stamped "4712".....	4, 713. 48

	Feet.
Mapleton, opposite station; top of east rail.....	4, 729. 9
Mapleton, 2,000 feet south of station, 650 feet southeast of milepost 91, 5 feet north of large field gate, at road crossing, east edge of railroad right of way, in sandstone monument 5 by 6 inches buried 3 feet in ground; aluminum tablet stamped "4739-16".....	4, 740. 486
Milepost 92, in base of, 150 feet north of signpost "Station 1 mile;" spike with aluminum tag stamped "4775".....	4, 775. 98
Mapleton, 2 miles south of, in base of milepost 93; spike with aluminum tag stamped "4815".....	4, 816. 15
Mapleton, 3 miles south of, in base of milepost 94; spike with aluminum tag stamped "4818".....	4, 819. 21
Mapleton, 4 miles south of, east end of Reclamation Service dam of Strawberry Valley project; aluminum tablet stamped "4858-17".....	4, 859. 172
Castello Springs, 0.6 mile north of, in base of milepost 97; spike with aluminum tag stamped "4896".....	4, 897. 38
Castello Springs, east side of main entrance of hotel, 4 feet above ground; aluminum tablet stamped "4918-18".....	4, 915. 546
Castello Springs, 0.5 mile south of, northwest corner of steel railroad bridge 679, on stone abutment painted "4928"; chisel point.....	4, 929. 91
Castello Springs, 1.5 miles south of, in base of milepost 99; spike with aluminum tag stamped "4947".....	4, 948. 15
Thistle, 1.4 miles north of, in base of milepost 100; spike with aluminum tag stamped "4978".....	4, 979. 21

NEPHI QUADRANGLE.

[Latitude 39° 30'-40°; longitude 111° 30'-112°.]

Near Thistle.

Thistle, 0.4 mile north of, in base of first telephone pole north of milepost 101; spike with aluminum tag stamped "5026".....	5, 027. 80
Thistle, 1,100 feet south of station, 10 feet east of main-line track, east end of north abutment of bridge 676; aluminum tablet stamped "5041-19".....	5, 042. 759
Thistle, 400 feet north of schoolhouse, 100 feet south of railroad right of way, near public road, in rock ledge; aluminum tablet stamped "5050".....	5, 051. 905

SCOFIELD QUADRANGLE.

[Latitude 39° 30'-40°; longitude 111°-111° 30'.]

From Thistle southeast along Denver & Rio Grande R. R. to Colton.

Thistle, 0.4 mile southeast of, in base of milepost 102; spike with aluminum tag stamped "5061".....	5, 063. 32
Thistle, 1.4 miles southeast of, in base of milepost 103; spike with aluminum tag stamped "5117".....	5, 118. 80
Thistle, 2 miles southeast of, 1,800 feet north of milepost 104, southeast corner of concrete abutment of railroad bridge 674; aluminum tablet stamped "5151-20".....	5, 152. 229
Thistle, 3.4 miles south of, in base of milepost 105; spike with aluminum tag stamped "5235".....	5, 236. 69
Thistle, 4.4 miles southeast of, in base of milepost 106; spike with aluminum tag stamped "5304".....	5, 305. 31
Thistle, 5.1 miles southeast of, 1,400 feet north of milepost 107, at road crossing; top of east rail.....	5, 373. 4
Thistle, 5.4 miles southeast of, in base of milepost 107; spike with aluminum tag stamped "5403".....	5, 404. 67

Narrows, 250 feet north of station signpost, 10 feet east of east track, in large boulder; aluminum tablet stamped "5498-21".....	Feet. 5, 499. 705
Narrows, 1 mile southeast of, in base of milepost 109; spike with aluminum tag stamped "5596".....	5, 598. 01
Narrows, 2 miles southeast of, in base of milepost 110; spike with aluminum tag stamped "5661".....	5, 662. 76
Narrows, 3 miles southeast of, in base of milepost 111; spike with aluminum tag stamped "5698".....	5, 698. 23
Narrows, 4 miles southeast of, in base of milepost 112; spike with aluminum tag stamped "5749".....	5, 751. 20
Mill Fork, 150 feet north of station, west side of water tower, center one of three supports of tank, in stone cap; aluminum tablet stamped "5803-23".....	5, 805. 204
Mill Fork, 1.5 miles southeast of, in base of milepost 114; spike with aluminum tag stamped "5898".....	5, 900. 26
Mill Fork, 2.5 miles southeast of, in base of milepost 115; spike with aluminum tag stamped "5955".....	5, 956. 39
Mill Fork, 3.5 miles southeast of, 0.2 mile north of milepost 116, east edge of railroad right of way, west edge of wagon road, in large boulder; aluminum tablet stamped "6014-24".....	6, 016. 115
Mill Fork, 4.5 miles southeast of, in base of milepost 117; spike with aluminum tag stamped "6073".....	6, 074. 46
Milepost 118, in base of; spike with aluminum tag stamped "6132".....	6, 133. 92
Tucker, 0.7 mile northwest of, in base of milepost 119; spike with aluminum tag stamped "6183".....	6, 184. 58
Tucker, 1,000 feet south of station, 150 feet east of roundhouse, southeast corner of concrete retaining wall of railroad bridge A 658; aluminum tablet stamped "6228-25".....	6, 229. 821
Tucker, 1 mile southeast of, 300 feet northwest of milepost 121, in base of signpost "Station 1 mile"; spike with aluminum tag stamped "6438".....	6, 434. 55
Tucker, 2 miles southeast of, in base of milepost 122; spike with aluminum tag stamped "6649".....	6, 645. 82
Media, 150 feet south of station, east edge of right of way, 10 feet above surface of track, in sandstone ledge; aluminum tablet stamped "6933-26".....	6, 929. 219
Media, 0.7 mile southeast of, in base of milepost 124; spike with aluminum tag stamped "7044".....	7, 040. 67
Soldier Summit, 1.6 miles north of, in base of milepost 125; spike with aluminum tag stamped "7249".....	7, 245. 62
Soldier Summit, 100 feet north of station, 50 feet east of south end of snow sheds, east edge of right of way, in large boulder in fence corner; aluminum tablet stamped "7467-27".....	7, 463. 812
Soldier Summit, 0.5 mile southeast of, in base of milepost 127; spike with aluminum tag stamped "7446".....	7, 442. 98
Soldier Summit, 1.5 miles southeast of, in base of milepost 128; spike with aluminum tag stamped "7397".....	7, 394. 29
Soldier Summit, 2.5 miles southeast of, in base of milepost 129; spike with aluminum tag stamped "7347".....	7, 343. 44
Colton, 3.3 miles west of, 500 feet south of milepost 130, in base of telephone pole; spike with aluminum tag stamped "7295".....	7, 291. 95
Colton, 2.5 miles northwest of, 500 feet west of milepost 131, south edge of railroad concrete culvert over drain; aluminum tablet stamped "7248-28".....	7, 244. 790
Colton, 1.5 miles northwest of, in base of milepost 132; spike with aluminum tag stamped "7215".....	7, 212. 24
Colton, 0.5 mile northwest of, in base of milepost 133; spike with aluminum tag stamped "7186".....	7, 182. 83

Colton, south face of public schoolhouse, 4 feet above ground, 3 feet west of main entrance; aluminum tablet stamped "7192-29"..... 7, 188. 463 Feet.

PRICE 30' QUADRANGLE (Castle Gate, Kyune, Nine Mile Creek, and Wellington 15' quadrangles).

[Latitude 39° 30'-40°; longitude 110° 30'-111°.]

From Colton southeast along Denver & Rio Grande R. R. to point 1.7 miles south of Farham.

Colton, 1.7 miles southeast of, in base of milepost 135; spike with aluminum tag stamped "7136"..... 7, 133. 12

Colton, 2.7 miles southeast of, 10 feet west of milepost 137, east edge of track, concrete culvert over drain; aluminum tablet stamped "7100-30"..... 7, 097. 050

Colton, 3.7 miles southeast of, in base of fourth telephone pole east of milepost 138; spike with aluminum tag stamped "7054"..... 7, 051. 06

Kyune, in base of milepost 139; spike with aluminum tag stamped "7029"..... 7, 019. 65

Kyune, 200 feet south of telegraph office, in north abutment of bridge 638B; aluminum tablet stamped "7012-31"..... 7, 014. 605

Kyune, 0.8 mile south of, in base of milepost 140; spike with aluminum tag stamped "6947"..... 6, 949. 54

Kyune, 1.8 miles south of, 50 feet south of milepost 141, in base of whistling post; spike with aluminum tag stamped "6848"..... 6, 850. 59

Castle Gate, 5 miles north of, in base of milepost 142; spike with aluminum tag stamped "6747"..... 6, 749. 35

Castle Gate, 4 miles north of, in base of milepost 143; spike with aluminum tag stamped "6639"..... 6, 641. 69

Castle Gate, 3 miles north of, near milepost 144, 50 feet east of track, in bowlder; aluminum tablet stamped "6519-32"..... 6, 522. 318

Castle Gate, 2 miles north of, in base of milepost 145; spike with aluminum tag stamped "6398"..... 6, 400. 50

Castle Gate, 1 mile north of, in base of milepost 146; spike with aluminum tag stamped "6279"..... 6, 281. 31

Castle Gate, 0.3 mile north of depot, 200 feet south of bridge, 10 feet east of switch signal, in large bowlder; aluminum tablet stamped "6146-33".... 6, 148. 490

Castle Gate, 200 feet north of station, at base of water plug; top of bolthead . 6, 112. 98

Castle Gate, 1.3 miles southeast of, in base of milepost 149; spike with aluminum tag stamped "6007"..... 6, 010. 27

Castle Gate, 2.3 miles southeast of, in base of milepost 150; spike with aluminum tag stamped "5934"..... 5, 937. 31

Castle Gate, 3.3 miles southeast of, in base of milepost 151; spike with aluminum tag stamped "5860"..... 5, 862. 96

Helper, east face of railroad Y. M. C. A. building, 15 feet south of main entrance, 2 feet above ground; aluminum tablet stamped "5827-34".... 5, 829. 896

Helper, 0.4 mile southeast of, in base of milepost 152; spike with aluminum tag stamped "5804"..... 5, 806. 94

Helper, 1.4 miles southeast of, in base of milepost 153; spike with aluminum tag stamped "5759"..... 5, 761. 92

Helper, 2.8 miles southeast of, 0.3 mile south of milepost 154, north end of railroad cut, at road crossing, in base of telephone pole; spike with aluminum tag stamped "5689"..... 5, 692. 37

Price, 3.3 miles north of, 0.9 mile south of milepost 155, 60 feet east of right of way, on edge of bluff, in sandstone bowlder; aluminum tablet stamped "5663-35"..... 5, 665. 468

Price, 2.3 miles north of, 0.4 mile south of milepost 156, at road crossing, in base of telephone pole; spike with aluminum tag stamped "5620".... 5, 623. 28

Price, 1.3 miles north of, in base of milepost 157; spike with aluminum tag stamped "5572".....	Feet. 5, 575. 39
Price, 0.6 mile north of, in base of milepost 158; spike with aluminum tag stamped "5541".....	5, 544. 16
Price, 50 feet south of south end of Denver & Rio Grande R. R. freight shed, in base of telephone pole; spike with aluminum tag stamped "5543".....	5, 545. 53
Price, west face of courthouse, top of first coping of steps at south entrance of building; aluminum tablet stamped "5564-36".....	5, 566. 570
Price, 1 mile south of, 0.2 mile north of milepost 160, at road crossing, in base of telephone pole; spike with aluminum tag stamped "5507".....	5, 510. 03
Price, 2 miles south of, in base of milepost 161; spike with aluminum tag stamped "5477".....	5, 479. 59
Price, 2.6 miles south of, 0.3 mile north of milepost 162, at road crossing, in base of telephone pole; spike with aluminum tag stamped "5454"....	5, 456. 62
Price, 3.8 miles south of, east side of concrete abutment of railroad bridge 615; aluminum tablet stamped "5434-37".....	5, 436. 652
Price, 5.2 miles south of, in base of milepost 163; spike with aluminum tag stamped "5413".....	5, 416. 29
Wellington, in base of station signpost; spike with aluminum tag stamped "5405".....	5, 407. 77
Wellington, 0.5 mile south of, in base of milepost 165; spike with aluminum tag stamped "5389".....	5, 392. 49
Wellington, 1.5 miles south of, southeast corner of steel railroad bridge, on stone abutment; aluminum tablet stamped erroneously "5459".....	5, 361. 824
Wellington, 2.5 miles south of, in base of milepost 167; spike with aluminum tag stamped "5341".....	5, 344. 09
Wellington, 3.5 miles south of, in base of milepost 168; spike with aluminum tag stamped "5327".....	5, 330. 16
Wellington, 4.5 miles south of, in base of milepost 169; spike with aluminum tag stamped "5316".....	5, 318. 62
Farnham, opposite station, 10 feet east of telephone pole, east edge of railroad right of way, in sandstone boulder buried flush with ground; aluminum tablet stamped "5315".....	5, 317. 913
Farnham, 0.7 mile south of, in base of milepost 170; spike with aluminum tag stamped "5325".....	5, 328. 27
Farnham, 1.7 miles south of, in base of milepost 171; spike with aluminum tag stamped "5353".....	5, 355. 95
From point 4 miles north of Desert Lake north and east along Sunnyside branch of Denver & Rio Grande R. R. to point 6 miles west of Sunnyside (single unchecked spur line).	
Mounds, 4 miles north of, on Sunnyside branch of Denver & Rio Grande R. R., 20 feet east of milepost 4, in sandstone boulder buried flush with ground; aluminum tablet stamped "5429".....	5, 432. 294
Milepost 5, in base of; spike with aluminum tag stamped "5482".....	5, 485. 23
Milepost 6, in base of; spike with aluminum tag stamped "5549".....	5, 551. 88
Milepost 7, in base of; spike with aluminum tag stamped "5628".....	5, 630. 69
Mounds, 4 miles north by 4 miles east of, 200 feet east of milepost 8, south edge of right of way, in sandstone boulder; aluminum tablet stamped "5695".....	5, 698. 590
Sunnyside, 6.1 miles west of, in base of sixth telephone pole west of milepost 9; spike with aluminum tag stamped "5760".....	5, 762. 90

Sunnyside, 6 miles west of, on summit of small butte, 6 feet south of triangulation station; chisel point on boulder, painted "5812"	Feet. 5, 815. 05
White, in base of station signpost; spike with aluminum tag stamped "5813"	5, 815. 90

From Wellington north along highway 5 miles, thence east, north, and west to Kyane.

NOTE.—An excessive error of 0.7 foot has been adjusted in this line of 40 miles.

Wellington, railroad spike in signpost, marked "5405"	5, 407. 77
Wellington, 1.2 miles northwest of, at T road north; copper nail in stake, marked "5469"	5, 469. 75
Wellington, 2.2 miles northwest of, 250 feet west of fence corner; copper nail in stake, marked "5511"	5, 511. 65
Price-Reservation road, 0.5 mile south of, on east side of road; copper nail in stake, marked "5731"	5, 731. 43
Wellington, 5 miles north of, 100 feet south of Price-Reservation road intersection with second-class road, 15 feet east of telephone pole; iron post stamped "5796 C. S."	5, 796. 619
Seven-mile post on Price-Reservation road, 200 feet northeast of; copper nail in stake, marked "5735"	5, 735. 58
Eight-mile post, 350 feet east of; copper nail in stake, marked "5733"	5, 734. 10
Coal Creek camp ground, 100 feet east of road, 50 feet south of ground, 50 feet north of telephone pole; iron post stamped "5739 C. S."	5, 739. 673
Coal Creek, 500 feet north of, at T road west; copper nail in stake, marked "5894"	5, 894. 69
Edwards ranch, 40 feet north of old log house on west side of road; iron post stamped "6254 C. S."	6, 254. 810
Edwards ranch, 1 mile north of, 100 feet west of road; copper nail in stake, marked "6426"	6, 427. 08
Soldier station, 0.7 mile north of, on west side of road; square cut in rock, marked "6895"	6, 895. 62
Soldier station, 2.2 miles north of, 250 feet north of P. V. bridge at road forks; iron post stamped "7116 C. S."	7, 116. 960
Soldier station, 2.2 miles north by 1.2 miles northwest of, at T road east; triangular point on rock marked "7306"	7, 307. 21
Soldier station, 2.2 miles north by 3.7 miles northwest of, on summit of hill west of Right Fork of Coal Creek, near boulder on north side of road; sharp pointed rock driven in ground, marked "7464"	7, 464. 90
Soldier station, 2.2 miles north by 4.3 miles northwest of, on road to Willow Creek, summit of hill, 1,500 feet east of small lake, 100 feet north of road; iron post stamped "7441 C. S."	7, 442. 047
Soldier station, 2.2 miles north by 4.7 miles northwest of, 75 feet north of road, near mound of rocks; copper nail in stake, marked "7351"	7, 352. 22
Big Summit, 0.5 mile east of, in clear space 100 feet south of road; sharp rock, marked "7442"	7, 443. 38
Big Summit, at camp ground west of, 1 by 2 inch stake, marked "7495" ..	7, 496. 70
Big Summit, at camp ground west of, 1 by 1 inch stake, marked "7495" ..	7, 496. 13
Big Summit, 100 feet north of road; iron post stamped "7515 C. S." (on single spur)	7, 516. 072
Big Summit, 0.8 mile west of, 100 feet south of road, in clear space; copper nail in stake, marked "7414"	7, 415. 20
Big Summit, 1.9 miles west of, at T road north, at crossing of Summit Creek; copper nail in stake, marked "7301"	7, 302. 32

Big Summit, 3.3 miles west of, 50 feet north of road, at crossing of Summit Creek; oblong stone buried in ground, marked "7199".....	Feet. 7, 200. 08
Willow Creek, 0.4 mile east of, at T road east; railroad spike driven 25 feet west of iron fence post, marked "7168".....	7, 168. 82
Willow Creek, 0.5 mile west of; west end of first rail west of crossing, marked "7175".....	7, 175. 67
Willow Creek, 0.5 mile west of, 15 feet south of railroad; post marked "7174".....	7, 175. 41
Big Summit, 5.4 miles west of, State road to Colton, 0.5 mile west of Willow Creek, 50 feet southeast of railroad crossing; iron post stamped "7173 C.S." (on single spur).....	7, 174. 143
Willow Creek, 1.8 miles west of and 750 feet west of second line fence west of, 100 feet north of wagon road, in small cut; copper nail in south end of tie, marked "7231".....	7, 232. 26
Matts Summit, 1.2 miles east of, 200 feet south of wagon road, 700 feet east of switch and derrick; copper nail in north end of tie, marked "7330".....	7, 330. 85
Matts Summit, 200 feet south of road; iron post stamped "7453 C. S.".....	7, 454. 182
Matts Summit, 1.1 miles west of, 1,000 feet north of bunkhouse at Big Spring; copper nail in south end of tie, marked "7290".....	7, 290. 76
Matts Summit, 1.9 miles west of; copper nail in center of south railing of bridge, marked "7241".....	7, 242. 34
T. 12 S., R. 9 E. closing corner of secs. 2 and 3, on Carbon-Utah county line; iron post stamped "U. S. G. S. 7244 C. S." and "T. 11 S., R. 9 E., s. 34 S. 35, C. C. S. 3 S. 2, T. 12 S., R. 9 E." (General Land Office mark).....	7, 245. 004
Kyune, 2.8 miles northeast of, 200 feet north by 50 feet above road, 200 feet west of curve; copper nail in south end of tie, marked "7195".....	7, 196. 10
Kyune, 1.1 miles north of, south of road; railroad spike in telephone pole, marked "7169".....	7, 169. 94
Kyune, 0.6 mile northwest of, north rail at Y switch; copper nail, marked "7028".....	7, 028. 91
Kyune, 900 feet south of telegraph office, in north abutment of bridge 638 B; aluminum tablet stamped "7012-31".....	7, 014. 605
From Price southwest along Castle Valley R. R. to Blackhawk, thence northeast along Southern Utah R. R. to Helper.	
Price, on west face of courthouse, on top of first coping of steps at south entrance to building; aluminum tablet stamped "5564".....	5, 566. 570
Price, 1 mile south of, on south end of Southern Utah R. R. bridge across Price River; top of rail.....	5, 503. 89
Price, 1.2 miles south of, at crossing of railroad and Price-Huntington road, in telephone pole; spike painted "5531".....	5, 530. 97
Price, 1.9 miles south of, on south end of bridge 3; top of rail.....	5, 592. 58
Price, 2.2 miles southwest of, on south end of bridge 4 across Drunkards Wash, in guardrail; spike painted "5604".....	5, 603. 75
Price, 2.6 miles southwest of, at crossing of Southern Utah R. R. and Price River Irrigation Canal, in middle of bridge; top of rail.....	5, 641. 36
Price, 3 miles southwest of, 50 feet west of track, in telephone pole; spike painted "5699".....	5, 699. 22
Price, 4 miles southwest of, in middle of bridge 6; top of rail.....	5, 736. 52
Price, 4.4 miles southwest of, 50 feet west of track, in telephone pole; spike painted "5753".....	5, 753. 23

Price, 4.4 miles southwest of, 50 feet west of track, beside 5-foot rail projecting 2 feet above ground, in rock set in ground; bronze tablet stamped "5756"	Feet. 5,756.485
Price, 5.3 miles southwest of, 2.3 miles north of Gaylord, 50 feet west of track, in telephone pole; spike painted "5802"	5,802.04
Price, 6.1 miles southwest of, 1.3 miles north of Gaylord, 50 feet west of track, in telephone pole; spike painted "5808"	5,808.30
Price, 6.4 miles southwest of, on bridge 9; top of rail	5,807.58
Gaylord siding, north end of, 70 feet west of track, in telephone pole; spike painted "5822"	5,822.50
Gaylord siding, north end of; point of frog	5,821.69
Price, 7.5 miles southwest of, 50 feet west of track at Gaylord siding, beside 5-foot rail projecting 2 feet above ground, in rock set in ground; bronze tablet stamped "5829"	5,828.775
Gaylord siding, 0.3 mile south of, at road crossing; top of rail	5,832.92
Gaylord siding, 1.1 miles southwest of, 50 feet north of track, in telephone pole; spike painted "5899"	5,899.58
Gaylord siding, 2.1 miles southwest of, 50 feet north of track, in telephone pole; spike painted "6025"	6,025.10
Millerton siding, 0.7 mile northeast of, 100 feet north of dim road crossing, in telephone pole; spike painted "6155"	6,155.45
Millerton siding, 100 feet south of west end of, in top of large boulder projecting 6 feet above ground; bronze tablet stamped "6292"	6,292.127
Millerton siding, 1.1 miles southwest of, 10 feet south of track, on rock inside of cut; chiseled point painted "6439"	6,438.88
Millerton siding, 2.1 miles southwest of, in middle of bridge 11; top of rail ..	6,567.1
Millerton siding, 2.6 miles southwest of, 70 feet north of track, in telephone pole; spike painted "6630"	6,629.75
Blackhawk, 1.8 miles northeast of, 150 feet south of Franklin siding signpost, 100 feet west of road, in large boulder projecting 3 feet above ground; bronze tablet stamped "6799"	6,798.970
Blackhawk, 0.6 mile east of, at Castle Junction, in signpost; spike painted "7060"	7,060.35
Blackhawk, 0.2 mile north of, on north end of Utah Ry. bridge; top of rail ..	7,174.0
Blackhawk, in concrete base of Utah Ry. water tank; bronze tablet stamped "7181"	7,181.208
Blackhawk, 1.2 miles north of, 10 feet west of track, on end of cast-iron culvert, on rock; chiseled point painted "7173"	7,173.33
Blackhawk, 2.2 miles north of, 50 feet east of track, in telephone pole; spike painted "7136"	7,136.06
Blackhawk, 3.5 miles north of, 20 feet west of track, on rock in deep cut; chiseled point painted "7049"	7,049.43
Blackhawk, 3.8 miles north of, 80 feet east of track, in top of stump; railroad bench-mark spike marked "7034.56"	7,034.23
Blackhawk, 4.1 miles north of, 50 feet west of track, 0.2 mile north of Sarvisberry Canyon, in large boulder; bronze tablet stamped "7000" ..	7,000.207
Blackhawk, 4.9 miles north of, 20 feet east of track, on end of concrete culvert; chiseled point painted "6920"	6,920.53
Blackhawk, 6.2 miles north of, 50 feet east of track, in telephone pole; spike painted "6801"	6,801.31
Blackhawk, 7.8 miles north of, in west end of masonry culvert; bronze tablet stamped "6642"	6,642.186

Blackhawk, 8.7 miles north of, opposite south end of Haley siding, 20 feet west of track, in fence corner post; spike painted "6560"	Feet. 6, 560. 03
Blackhawk, 9.8 miles north of, 0.7 mile north of Haley siding, 30 feet west of track at south end of fill, on large boulder; chiseled point painted "6490"	6, 489. 87
Blackhawk, 10.8 miles north of, 1.8 miles south of Gordon Creek bridge, 50 feet east of track, in telephone pole; spike painted "6441"	6, 441. 12
Blackhawk, 11.6 miles north of, at road crossing 1.1 miles south of Gordon Creek, in guard post; spike painted "6379"	6, 379. 15
Gordon Creek bridge, north end of; top of rail.....	6, 285. 9
Gordon Creek bridge, top of north abutment; railroad bench-mark chiseled point marked "6284.30"	6, 284. 40
Blackhawk, 12.6 miles north of, in concrete base of Gordon Creek water tank; bronze tablet stamped "6282"	6, 282. 546
Blackhawk, 13.6 miles north of, 1.4 miles north of Gordon Creek bridge, in telephone pole; spike painted "6225"	6, 225. 14
Blackhawk, 14.8 miles north of, 1 mile south of Wildcat siding, in fence corner post on fill; spike painted "6180"	6, 180. 14
Blackhawk, 15.5 miles north of, at south end of Wildcat siding; point of frog.....	6, 176. 48
Helper, 6.5 miles south of, at north end of Wildcat siding, in concrete abutment of bridge; bronze tablet stamped "6175"	6, 175. 431
Helper, 4.9 miles south of, 0.4 mile south of tunnel 2, 50 feet east of track, in telephone pole; spike painted "6107"	6, 107. 03
Helper, 4.5 miles south of, at south end of tunnel 2; top of rail.....	6, 115. 8
Helper, 3.3 miles south of, 0.2 mile south of road crossing, 50 feet east of track, on large red boulder; chiseled point painted "6114"	6, 114. 40
Helper, 3.1 miles south of, at road crossing; top of rail.....	6, 117. 5
Helper, 2.6 miles south of, in top of masonry abutment of Utah Ry. viaduct over branch railroad from Helper to Storrs; bronze tablet stamped "6094"	6, 094. 914
Helper, 1.7 miles south of, 0.3 mile south of water tank on branch railroad from Helper to Storrs, 20 feet east of track, on ledge; chiseled point painted "5952"	5, 952. 51
Helper, 1.1 miles west of, 300 feet south of railroad bridge across Price River; point on end of rail	5, 872. 24
Helper, on east face of railroad Y. M. C. A. building, 15 feet south of main entrance, 2 feet above ground; aluminum tablet stamped "5827-34"	5, 829. 896

SUNNYSIDE QUADRANGLE.

[Latitude 39° 30'–39° 45'; longitude 110° 15'–110° 30'.]

From point 4 miles west of Sunnyside to Sunnyside (spur line unchecked).

Sunnyside, 4 miles west of, north side of right of way, at triangulation station, in top of sandstone boulder under center of signal and buried flush with ground; aluminum tablet stamped "5902"	5, 904. 912
Milepost 12; spike in base of, aluminum tag stamped "6042"	6, 045. 31
Milepost 13; spike in base of, aluminum tag stamped "6166"	6, 168. 94
Milepost 14; spike in base of, aluminum tag stamped "6294"	6, 296. 99
Sunnyside, 100 feet south of milepost 15, south edge of railroad right of way, in sandstone boulder; aluminum tablet stamped "6432"	6, 434. 945

DESERT LAKE QUADRANGLE.

[Latitude 39°-39° 30'; longitude 110° 30'-111°.]

From point 1.7 miles south of Farnham southeast along Denver & Rio Grande R. R. to point near Cedar.

	Feet.
Farnham, 2.7 miles south of, in base of milepost 172; spike with aluminum tag stamped "5381".....	5, 383. 84
Mounds, 1.9 miles north of, 300 feet north of milepost 173, in north abutment of railroad bridge 605; aluminum tablet stamped "5386-41".....	5, 388. 870
Mounds, 1 mile north of, in base of second telephone pole north of milepost 174; spike with aluminum tablet stamped "5418".....	5, 421. 18
Mounds, 150 feet east of station, 50 feet east of right of way, 15 feet north of small building; iron post stamped "5439-42".....	5, 442. 380
Milepost 176, in base of; spike with aluminum tag stamped "5389".....	5, 391. 87
Milepost 177, in base of; spike with aluminum tag stamped "5339".....	5, 342. 41
Milepost 178, in base of; spike with aluminum tag stamped "5293".....	5, 296. 41
Verde, in base of station sign; spike with aluminum tag stamped "5267"....	5, 269. 52
Verde, 0.7 mile south of, east end of south abutment of bridge 598 B; aluminum tablet stamped "5233-43".....	5, 235. 67
Milepost 180, in base of; spike with aluminum tag stamped "5204".....	5, 206. 80
Milepost 181, in base of; spike with aluminum tag stamped "5148".....	5, 151. 10
Milepost 182, in base of; spike with aluminum tag stamped "5104".....	5, 106. 99
Milepost 183, in base of; spike with aluminum tag stamped "5114".....	5, 117. 10

From Mounds north along Sunnyside branch of Denver & Rio Grande R. R. 4 miles (single unchecked spur line).

Mounds, 1 mile north of, in base of milepost; spike with aluminum tag stamped "5411".....	5, 414. 38
Mounds, 2 miles north of, in base of milepost 2; spike with aluminum tag stamped "5377".....	5, 380. 24
Mounds, 3 miles north of, in base of milepost 3; spike with aluminum tag stamped "5395".....	5, 398. 08

WOODSIDE QUADRANGLE (including Grassy and Beckwith Peak 1½ quadrangles).

[Latitude 39°-39° 30'; longitude 110°-110° 30'.]

From Cedar southeast along Denver & Rio Grande R. R. to point 1 mile west of Green River.

Milepost 184, in base of; spike with aluminum tag stamped "5155".....	5, 158. 29
Cedar, east edge of right of way, 300 feet north of station, 10 feet south of telephone pole; iron post stamped "5172-44".....	5, 174. 946
Milepost 185, in base of; spike with aluminum tag stamped "5185".....	5, 187. 66
Milepost 186, in base of; spike with aluminum tag stamped "5134".....	5, 137. 37
Milepost 187, in base of; spike with aluminum tag stamped "5090".....	5, 092. 87
Cedar, 3.6 miles east of, 400 feet west of milepost 188, north edge of right of way, at east end of cut, in bowlder; aluminum tablet stamped "5040-45".....	5, 042. 518
Milepost 189, in base of; spike with aluminum tag stamped "4984".....	4, 987. 49
Milepost 190, in base of; spike with aluminum tag stamped "4918".....	4, 921. 45
Milepost 191, in base of; spike with aluminum tag stamped "4864".....	4, 866. 68
Grassy, east edge of right of way, 50 feet south of station sign, 8 feet south of telephone pole; iron post stamped "4851-46".....	4, 854. 027
Milepost 192, in base of; spike with aluminum tag stamped "4800".....	4, 803. 48
Milepost 193, in base of; spike with aluminum tag stamped "4764".....	4, 767. 27
Milepost 194, in base of; spike with aluminum tag stamped "4708".....	4, 703. 76

Woodside, 3 miles north of, west edge of north abutment of bridge 583 B;	Feet.
aluminum tablet stamped "4614-47"	4, 686. 282
Milepost 195, in base of; spike with aluminum tag stamped "4655"	4, 657. 70
Milepost 196, in base of; spike with aluminum tag stamped "4643"	4, 645. 71
Milepost 197, in base of; spike with aluminum tag stamped "4625"	4, 628. 08
Woodside, 400 feet south of station, west end of north abutment of steel railroad bridge; aluminum tablet stamped erroneously "4626-48"	4, 627. 600
Milepost 198, in base of; spike with aluminum tag stamped "4648"	4, 650. 00
Milepost 199, in base of; spike with aluminum tag stamped "4665"	4, 667. 21
Milepost 200, in base of; spike with aluminum tag stamped "4691"	4, 693. 40
Milepost 201, in base of; spike with aluminum tag stamped "4737"	4, 739. 10
Milepost 202, in base of; spike with aluminum tag stamped "4784"	4, 785. 99
Cliff, 30 feet east of station signpost, 6 feet south of telephone pole, east edge of railroad right of way; iron post stamped "4824-49"	4, 826. 520
Milepost 204, in base of; spike with aluminum tag stamped "4787"	4, 788. 78
Milepost 205, in base of; spike with aluminum tag stamped "4732"	4, 733. 90
Milepost 206, in base of; spike with aluminum tag stamped "4679"	4, 680. 81
Cliff, 3.2 miles south of, 0.4 mile south of milepost 206, east edge of rail- road right of way, south of public-road crossing; iron post stamped "4663-50"	4, 665. 058
Milepost 207, in base of; spike with aluminum tag stamped "4629"	4, 631. 36
Milepost 208, in base of; spike with aluminum tag stamped "4586"	4, 588. 29
Milepost 209, in base of; spike with aluminum tag stamped "4539"	4, 540. 81
Desert, 100 feet south of station, east edge of right of way, 10 feet south of telephone pole; iron post stamped "4510-51"	4, 512. 157
Milepost 211, in base of; spike with aluminum tag stamped "4456"	4, 457. 93
Milepost 212, in base of; spike with aluminum tag stamped "4423"	4, 424. 88
Milepost 213, in base of; spike with aluminum tag stamped "4396"	4, 397. 69
Milepost 214, in base of; spike with aluminum tag stamped "4388"	4, 390. 60
Desert, 5 miles south of, 500 feet north of milepost 214, in east end of south abutment of bridge 563; aluminum tablet stamped "4353-2"	4, 355. 929
Milepost 216, in base of; spike with aluminum tag stamped "4303"	4, 305. 45
Sphinx, 50 feet north of station signpost, 10 feet south of telephone pole, at east edge of right of way; iron post stamped "4280-52"	4, 281. 752
Milepost 218, in base of; spike with aluminum tag stamped "4248"	4, 250. 44
Milepost 219, in base of; spike with aluminum tag stamped "4217"	4, 218. 87
Milepost 220, in base of; spike with aluminum tag stamped "4167"	4, 169. 12
Green River, 2.2 miles west of, east end of south abutment of bridge 557; aluminum tablet stamped "4142-54"	4, 144. 651
Milepost 221, in base of; spike with aluminum tag stamped "4135"	4, 137. 38

TIDWELL QUADRANGLE.

[Latitude 38° 30'-39°; longitude 110°-110° 30'.]

From point 1 mile west of Green River southeast along Denver & Rio Grande R. R. to
point 1 mile east of Solitude.

Milepost 222, in base of; spike with aluminum tag stamped "4099"	4, 101. 60
Green River, west face of public-school building, 5 feet south of main entrance, 3 feet above ground; aluminum tablet stamped "4085-55"	4, 087. 794
Green River, north abutment of steel railroad bridge over river; aluminum tablet stamped "4062"	4, 064. 032
Milepost 225, in base of; spike with aluminum tag stamped "4101"	4, 102. 74
Milepost 226, in base of; spike with aluminum tag stamped "4148"	4, 150. 36

Green River, 4 miles east of east end of concrete culvert, 300 feet north of	Feet.
milepost 227; aluminum tablet stamped "4187-55 A"	4, 188. 874
Milepost 228, in base of; spike with aluminum tag stamped "4243"	4, 245. 24
Milepost 229, in base of; spike with aluminum tag stamped "4295"	4, 296. 95
Milepost 230, in base of; spike with aluminum tag stamped "4333"	4, 335. 42
Solitude, 10 feet east of station signpost, west edge of right of way; iron post stamped "4372-56"	4, 374. 347
Milepost 232, in base of; spike with aluminum tag stamped "4426"	4, 428. 13

MOAB QUADRANGLE.

[Latitude 38° 30'-39°; longitude 109° 30'-110°.]

From point 1 mile east of Solitude east along Denver & Rio Grande R. R. to point 1 mile west of White House.

Milepost 233, in base of; spike with aluminum tag stamped "4457"	4, 459. 27
Milepost 234, in base of; spike with aluminum tag stamped "4494"	4, 496. 56
Milepost 235, in base of; spike with aluminum tag stamped "4541"	4, 543. 38
Milepost 236, in base of; spike with aluminum tag stamped "4594"	4, 596. 44
Floy, 0.2 mile west of, east end of concrete abutment of bridge 541; aluminum tablet stamped "4616-59"	4, 618. 275
Milepost 238, in base of; spike with aluminum tag stamped "4619"	4, 621. 26
Milepost 239, in base of; spike with aluminum tag stamped "4664"	4, 666. 15
Milepost 240, in base of; spike with aluminum tag stamped "4713"	4, 715. 32
Crescent, 2 miles west of, 15 feet east of second telephone pole east of milepost 241, east edge of railroad right of way; iron post stamped "4777-60"	4, 778. 890
Milepost 242, in base of; spike with aluminum tag stamped "4816"	4, 818. 24
Milepost 243, in base of; spike with aluminum tag stamped "4875"	4, 877. 90
Crescent, 800 feet east of water tank, opposite milepost 244, at north edge of railroad right of way; iron post stamped "4898-61"	4, 900. 171
Milepost 245, in base of; spike with aluminum tag stamped "4907"	4, 909. 23
Milepost 246, in base of; spike with aluminum tag stamped "4946"	4, 948. 95
Milepost 247, in base of; spike with aluminum tag stamped "5000"	5, 002. 48
Milepost 248, in base of; spike with aluminum tag stamped "5045"	5, 047. 94
Milepost 249, in base of; spike with aluminum tag stamped "5094"	5, 096. 43
Thompson, southeast corner of concrete abutment of bridge, 500 feet north of station; aluminum tablet stamped "5132-62"	5, 134. 957
Milepost 251, in base of; spike with aluminum tag stamped "5126"	5, 128. 54
Milepost 252, in base of; spike with aluminum tag stamped "5084"	5, 086. 52
Thompson, 3.2 miles east of, 150 feet south of milepost 253, in south end of concrete abutment of steel bridge; aluminum tablet stamped "5033-63"	5, 035. 083
Milepost 254, in base of; spike with aluminum tag stamped "4983"	4, 985. 63
Milepost 255, in base of; spike with aluminum tag stamped "4937"	4, 939. 47
Milepost 256, in base of; spike with aluminum tag stamped "4887"	4, 889. 38
Milepost 257, in base of; spike with aluminum tag stamped "4832"	4, 834. 97
Sagers, 500 feet east of station, opposite milepost 258, west edge of right of way; iron post stamped "4782-64"	4, 784. 363
Milepost 259, third telephone pole east of, in base of signpost; spike with aluminum tag stamped "4727"	4, 728. 07
Milepost 260, in base of; spike with aluminum tag stamped "4680"	4, 682. 06
Milepost 261, in base of; spike with aluminum tag stamped "4630"	4, 632. 24
White House, 4.3 miles west of, southeast corner of concrete culvert of bridge; aluminum tablet stamped "4621-65"	4, 623. 386
Milepost 262, in base of; spike with aluminum tag stamped "4605"	4, 608. 06
Milepost 263, in base of; spike with aluminum tag stamped "4571"	4, 573. 28
Milepost 264, in base of; spike with aluminum tag stamped "4553"	4, 555. 66

MOUNT WAAS QUADRANGLE.

[Latitude 38° 30'–39°; longitude 109°–109° 30'.]

From point 1 mile west of White House northeast along Denver & Rio Grande R. R. to Cisco.

	Feet.
Milepost 265, in base of; spike with aluminum tag stamped "4506".....	4, 508. 60
White House, 6 feet east of station signpost, north edge of railroad right of way; iron post stamped "4485–66".....	4, 487. 184
Milepost 267, 300 feet west of, in base of signpost; spike with aluminum tag stamped "4451".....	4, 453. 24
Milepost 268, in base of; spike with aluminum tag stamped "4434".....	4, 437. 04
Milepost 269, in base of; spike with aluminum tag stamped "4449".....	4, 451. 28
Cisco, 3.7 miles west of, opposite milepost 270, east edge of railroad right of way; iron post stamped "4455–67".....	4, 457. 587
Milepost 271, in base of; spike with aluminum tag stamped "4406".....	4, 408. 50
Milepost 272, in base of; spike with aluminum tag stamped "4351".....	4, 353. 28
Milepost 273, in base of; spike with aluminum tag stamped "4331".....	4, 333. 27
Cisco, 25 feet east of station, in corner of railroad park; iron post stamped "4350–68".....	4, 353. 353
Milepost 274, in base of; spike with aluminum tag stamped "4360".....	4, 362. 27

WESTWATER QUADRANGLE.

[Latitude 39°–39° 30'; longitude 109°–109° 30'.]

From Cisco northeast along Denver & Rio Grande R. R. to Utaline.

Milepost 275, in base of; spike with aluminum tag stamped "4326".....	4, 328. 05
Milepost 276, in base of; spike with aluminum tag stamped "4314".....	4, 316. 16
Milepost 277, in base of; spike with aluminum tag stamped "4316".....	4, 317. 68
Milepost 278, in base of; spike with aluminum tag stamped "4315".....	4, 316. 44
Marrs, 250 feet east of station signpost, 6 feet south of second telephone pole, south edge of railroad right of way; iron post stamped "4346–69".....	4, 348. 039
Milepost 280, in base of; spike with aluminum tag stamped "4347".....	4, 348. 75
Milepost 281, in base of; spike with aluminum tag stamped "4380".....	4, 381. 69
Milepost 282, in base of; spike with aluminum tag stamped "4423".....	4, 425. 05
Milepost 283, in base of; spike with aluminum tag stamped "4434".....	4, 435. 95
Milepost 284, in base of; spike with aluminum tag stamped "4485".....	4, 486. 91
Cottonwood, 1,000 feet east of station, south end of cut, 10 feet north of track, 50 feet west of milepost 285, in sandstone boulder; aluminum tablet stamped "4548–70".....	4, 549. 662
Milepost 286, in base of; spike with aluminum tag stamped "4498".....	4, 500. 36
Milepost 287, in base of; spike with aluminum tag stamped "4444".....	4, 446. 34
Milepost 288, in base of; spike with aluminum tag stamped "4383".....	4, 385. 30
Milepost 289, in base of; spike with aluminum tag stamped "4329".....	4, 331. 14
Westwater, 25 feet north of station, east end of station signpost; iron post stamped "4320–71".....	4, 320. 844
Milepost 290, in base of; spike with aluminum tag stamped "4318".....	4, 319. 96
Milepost 291, in base of; spike with aluminum tag stamped "4333".....	4, 332. 12
Milepost 292, in base of; spike with aluminum tag stamped "4341".....	4, 340. 25
Milepost 293, in base of; spike with aluminum tag stamped "4340".....	4, 339. 04
Utaline, 20 feet north of station signpost, on Utah-Colorado State line, in sandstone ledge; aluminum tablet stamped "4353–72".....	4, 355. 168

MOUNT BARTLES QUADRANGLE.

[Latitude 39° 30'-40°; longitude 110°-110° 30'.]

From point 5.5 miles west of Sunnyside east along Sunnyside branch of Denver & Rio Grande R. R. to Sunnyside (single unchecked spur line).

Sunnyside, 4 miles west of, north side of right of way, under center of signal at triangulation station, in sandstone boulder buried flush with ground;	Feet.
aluminum tablet stamped "5902".....	5, 904. 912
Milepost 12, in base of; spike with aluminum tag stamped "6042".....	6, 045. 31
Milepost 13, in base of; spike with aluminum tag stamped "6166".....	6, 168. 94
Milepost 14, in base of; spike with aluminum tag stamped "6294".....	6, 296. 99
Sunnyside, 100 feet south of milepost 15, south edge of railroad right of way, in sandstone boulder; aluminum tablet stamped "6432".....	6, 434. 945

Fish Springs and Sevier Desert quadrangles.**JUAB AND MILLARD COUNTIES.**

The elevations in this list are based on a bench mark at Oasis, an iron post at the southwest corner of Day's Hotel, the elevation of which by the adjustment of the Coast and Geodetic Survey precise leveling of 1912 is accepted as 4,593.734 feet.

The leveling was done in 1908 by T. A. Green.

SEVIER DESERT QUADRANGLE.

[Latitude 39°-40°; longitude 112°-113°.]

From Oasis to Drum (Joy post office).

	Feet.
Oasis, southwest corner of Day's Hotel; iron post stamped "4591-1908"....	4, 593. 734
Oasis, in front of station; top of rail.....	4, 596. 3
Deseret, 75 feet east of crossroads, south of post office, at corner of corporation scales; top of bolt marked "4584".....	4, 586. 55
Deseret, 5.08 miles northwest of, 100 feet north of road, in 6 by 12 by 24 inch rock; aluminum tablet stamped "4572".....	4, 574. 491
Deseret, 10.92 miles northwest of, 50 feet north of road; iron post stamped "4559".....	4, 561. 403
Deseret, 16.69 miles northwest of, 1.12 miles northwest of old smelter, 30 feet east of road, in oblong rock; aluminum tablet stamped "4681"....	4, 683. 622
Joy, 11 miles southeast of, 10 feet west of road, in brown sandstone boulder 30 inches wide and 18 inches deep; bronze tablet stamped "5028".....	5, 030. 756

From Antelope Spring east to Deseret (part of line).

Soap Hollow, 7.18 miles east of, at forks of road, on east side of Swassie Wash, 50 feet east of forks; iron post stamped "4680".....	4, 682. 737
Crafts, 2.75 miles northwest of, 40 feet north of road; iron post stamped "4553".....	4, 555. 622
Crafts, 1.75 miles northwest of, on west side of road at northwest corner of lake; point on rock marked "4542".....	4, 552. 43
Crafts, 3.18 miles northwest of, 20 feet west of road, on top of small ridge; iron post stamped "4561".....	4, 564. 207
Deseret, 3.4 miles west of, 30 feet east of road, 130 feet north of forks; iron post stamped "4573".....	4, 575. 394

FISH SPRINGS QUADRANGLE.

[Latitude 39°-40°; longitude 113°-114°.]

From Drum (Joy post office) via Fish Springs to Callao.

Joy, 5 miles southeast of, 20 feet east of road, at sharp bend to north, in rock; aluminum tablet stamped "5653".....	5, 656. 040
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Joy, 3 miles southeast of, 75 feet north of road running east to Ibex mine; point on rock.....	Feet. 5, 943.33
Joy, 0.87 mile southeast of post office, 5 feet east of road; point on mining claim monument.....	5, 974.10
Joy (Drum), 0.6 mile west of post office, 100 feet south of road, 325 feet west of four corners, on top of small hill, in porphyry outcrop; aluminum tablet stamped "5954".....	5, 956.510
Joy, 5.21 miles northwest of, 30 feet south of road, at plane-table station, in rock; aluminum tablet stamped "5333".....	5, 335.789
Joy, 11.84 miles northwest of, 30 feet east of road, in rock; aluminum tablet stamped "4743".....	4, 745.839
Cane Spring, 8.3 miles southeast of, north side of road, 160 feet west of freighter's camp ground; point on rock.....	4, 541.42
Cane Spring, 5 miles southeast of, 870 feet west of road running north, 20 feet north of road, in rock; aluminum tablet stamped "4390".....	4, 392.215
Cane Spring, 0.67 mile north of, on east side of road, 50 feet north of freighter's feed box and cedar post, in rock; aluminum tablet stamped "4337".....	4, 339.399
Thomas ranch, in east side of old stone house occupied by J. J. Thomas, north of south door; aluminum tablet stamped "4319".....	4, 321.345
Thomas ranch, 2.80 miles north of, 200 feet west of northwest corner of Fish Spring; point on quartz outcrop.....	4, 308.86
Thomas ranch, 4.11 miles northwest of, 140 feet west of road running north to Hat Springs, 30 feet south of road, at point where road makes sharp bend to southwest; point on rock.....	4, 308.94
Fish Springs, 1.8 miles southwest of, 200 feet west of road, near western end of black mesa; iron post stamped "4340".....	4, 342.305
Fish Springs, about 1 mile west of, at forks of road, in southwest corner of casing around old well; nail.....	4, 334.91
Fish Springs, about 2 miles west of, at old well on east side of road; top of iron standpipe.....	4, 344.95
Fish Springs, 4.39 miles west of, 40 feet north of junction with main road running southwest to Trout Creek; iron post stamped "4348".....	4, 350.240
Callao, 4.6 miles east of, 40 feet north of road; iron post stamped "4326".....	4, 328.575

From Callao via Trout Creek to Gandy, Smithville, and Cowboy Pass.

Callao, 200 feet southeast of southeast corner of John Kearney's ranch house, on south side of road, 10 feet west of field gate; iron post stamped "4326".....	4, 328.972
Callao, 6.16 miles southwest of, 1,280 feet south of crossing over running stream, 40 feet west of road; iron post stamped "4813".....	4, 815.420
Callao, 9.61 miles southwest of, 40 feet west of road, 900 feet west of old dry lake, in large granite boulder; aluminum tablet stamped "4974".....	4, 976.629
Trout Creek, 2.8 miles north of, 28 feet west of road, 15 feet due west of boulder, in rock; aluminum tablet stamped "4821".....	4, 822.946
Trout Creek, 1.6 miles north of, 40 feet north of road junction; iron post stamped "4679".....	4, 681.793
Trout Creek, 4.84 miles south of, 25 feet west of road, on top of sandy ridge, between two salt marshes; iron post stamped "4735".....	4, 738.235
Trout Creek, 7.81 miles south of, 10 feet east of road, 30 feet south of four corners; point on lava rock.....	4, 774.58
Gandy, 9 miles north of, 50 feet west of junction with road running southwest, 10 feet south of road; iron post stamped "4837".....	4, 839.991
Gandy, 3.2 miles north of, 40 feet west of road, 150 feet south of road running northwest; iron post stamped "5014".....	5, 017.020

Gandy, 2.42 miles southeast of, 35 feet west of road, 1,175 feet north of road running east, in rock; aluminum tablet stamped "4949"	Feet. 4, 950. 972
Smithville, 1,260 feet west of post office, 100 feet south of road, 40 feet west of gate to George Bishop's ranch house, in rock; aluminum tablet stamped "4881"	4, 884. 270
Smithville, 6.15 miles south of, 20 feet west of road, 270 feet south of point where road crosses sand dunes, in marble rock; aluminum tablet stamped "4889"	4, 891. 618
Simonson's ranch, 300 feet northeast of, at northwest corner of field fence, in rock; aluminum tablet stamped "4956"	4, 959. 042
Simonson's ranch, 6.25 miles east of, 15 feet south of road; iron post stamped "4867"	4, 869. 887
Cowboy Pass, 4.6 miles west of, 40 feet south of road, in rock; aluminum tablet stamped "5162"	5, 164. 790
Cowboy Pass, 3.1 miles west of, 5 feet south of road, at point where road makes a sharp bend to east into mouth of canyon; point on rock.....	5, 354. 18

From Gandy via Foote's ranch and Bishop Spring to Cowboy Pass.

Foote's ranch, 4.6 miles northwest of, 5 feet north of road, at southeast corner of fence around Conkling's ranch; iron post stamped "4826"	4, 835. 770
Foote's ranch, 0.8 mile northwest of, on north side of road, 300 feet west of dim road north; iron post stamped "4819"	4, 827. 690
Bishop Spring, 0.9 mile northwest of, 10 feet east of road, 300 feet northeast of Foote's Spring; point on rock marked "4817"	4, 825. 89
Bishop Spring, 6.12 miles southeast of, 10 feet south of road, 70 feet east of road west to Smithville, in rock; aluminum tablet stamped "4962"	4, 972. 122

From Cowboy Pass to Tule Spring.¹

Cowboy Pass, 50 feet north of road, 10 feet west of divide, in limestone outcrop; aluminum tablet stamped "5707"	5, 716. 861
Cowboy Pass, 6.1 miles east of, 15 feet south of road, in limestone rock, beside rock monument; aluminum tablet stamped "4841"	4, 851. 125
Tule Spring, 15 feet east of North Spring, 20 feet north of road; iron post stamped "4411"	4, 421. 124

From Bishop Spring to Tule Spring.

Bishop Spring, 3.2 miles southeast of, at point where road makes sharp bend to northwest, on south end of small nose in limestone outcrop; aluminum tablet stamped "5176"	5, 185. 995
Bishop Spring, 8.5 miles southeast of, 50 feet north of forks of road at top of divide, 40 feet east of divide, in limestone rock; aluminum tablet stamped "5963"	5, 972. 968
Tule Spring, 9.97 miles northwest of, on north side of road, 25 feet east of dim road south, at mouth of canyon; point on rock marked "5376"	5, 386. 45
Tule Spring, 6.15 miles northwest of, 20 feet north of road; iron post stamped "4735"	4, 744. 993

From point 2.1 miles northwest of Joy via Swasey Spring road to crossroads 4.5 miles east of Antelope Spring.

Joy, 8.26 miles southwest of, 40 feet east of road; iron post stamped "5146" ..	5, 148. 653
Joy, 14.5 miles southwest of, 20 feet west of road; iron post stamped "5026" ..	5, 028. 236
Joy, 21.29 miles southwest of, 50 feet east of road, in blue limestone rock; aluminum tablet stamped "5222" (witness mark, slate slab 2 feet east of tablet)	5, 224. 379

¹ The error of this line is excessive.

From Tule Spring via Antelope Spring and Crafts to Desert.

Tule Spring, 6.06 miles east of, 45 feet north of road, in rock on west side of rock monument; aluminum tablet stamped "4759".....	Feet. 4, 769. 459
Antelope Spring, 1.16 miles west of, at top of main divide of House Range, 20 feet north of road, 15 feet west of divide, in limestone outcrop; aluminum tablet stamped "6740".....	6, 743. 112
Antelope Spring, 5.05 miles east of, 40 feet south of road, on end of small nose between two washes, in oblong bowlder; aluminum tablet stamped "5547".....	5, 550. 183
Soap Hollow, 1.5 miles east of, at top of ridge, 200 feet east of saddle, 50 feet north of road, in sandstone outcrop; aluminum tablet stamped "5001".....	5, 003. 411

Tintic special quadrangle.

[Latitude 39° 45'-40°; longitude 111° 58'-112° 10'.]

JUAB AND UTAH COUNTIES.

The elevations in the following list are based on an iron post set in the ground at the northeast corner of the courthouse at Eureka and stamped "6394." The height of this post was originally derived from the elevation of the top of the rail in front of the station of the San Pedro, Los Angeles & Salt Lake R. R. at Eureka, given as 6,387 feet by the railway officials. The elevation of the central datum point is now accepted as 6,396.060 feet above mean sea level as redetermined by precise leveling of the United States Coast and Geodetic Survey.

The leveling was done in 1897 by A. B. Searle.

From Eureka through Robinson, Silver City, and Diamond to Diamond Divide.

Eureka, junction of San Pedro, Los Angeles & Salt Lake R. R. and Denver & Rio Grande R. R.; top of rail.....	Feet. 6, 179. 19
Robinson, southeast corner of lawn at Hotel Mammoth; iron post stamped "6382".....	6, 383. 355
Diamond, in southeast angle of cross streets in center of town; iron post stamped "6240".....	6, 242. 017
Diamond Divide, at east end of long flat near head of Water and Government canyons, beside large rock at base of small cedar tree; iron post stamped "6790".....	6, 791. 105

From Silver City down Tintic Valley to point near McIntire's ranch.

T. 11 S., R. 3 W., northwest corner of sec. 14, junction of road from Silver City and road from Mammoth to McIntire's ranch, west side of old grade of Denver & Rio Grande R. R., about 500 feet north of trestle; iron post stamped "5686".....	5, 688. 018
T. 12 S., R. 3 W., SE. $\frac{1}{4}$ NW. $\frac{1}{4}$ sec. 11, on north side of draw, in angle formed by road from McIntire's ranch and old road leading off to northeast; iron post stamped "5771".....	5, 772. 968

Up Copperopolis Creek.

T. 12 S., R. 3 W., northeast corner of sec. 1, mound of earth just south of wagon road at junction of valleys; iron post stamped "6124".....	6, 126. 019
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Up Kimball Creek.

Big and Little Dog canyons, near junction of, on east side of wagon road, about 0.2 mile north of junction of streams; iron post stamped "5739".....	5, 740. 679
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Up Cottonwood Canyon.

Cottonwood Canyon, head of, about 600 feet east of wagon road, about 250 feet north of Juab-Utah county line, under lone tree; iron post stamped "6228" Feet. 6, 229. 689

From Diamond Divide via Government Canyon, Iron Spur, and Homansville to Eureka.

Goshen Valley, northwest corner of T. 11 S., R. 1 W.; iron post stamped "4793" 4, 794. 736
Goshen Valley, at northwest corner of T. 10 S., R. 1 W.; iron post stamped "4978" 4, 980. 135

Frisco special quadrangle.

[Latitude 38° 20' - 38° 32' 30"; longitude 113° 04' - 113° 21'.]

BEAVER COUNTY.

The elevations in the following list are based on the height of a bench-mark post 400 feet north of the station at Milford, accepted as 4,956.631 feet, as determined by the Coast and Geodetic Survey.

The leveling was done in 1904 by R. A. Farmer and in 1905 by Fred McLaughlin, and was originally based on railroad datum; hence the erroneous stamping of bench marks.

From Milford west along San Pedro, Los Angeles & Salt Lake R. R. (Frisco branch) to Frisco (mean of two runs).

	Feet.
Milford, in front of station; top of rail.....	4, 959. 2
Milford, 300 feet south of station, 50 feet west of main track, 5 feet north of telephone pole; iron post stamped "5035".....	4, 958. 288
Milford, 400 feet north of station, 50 feet west of main track, 10 feet south of telephone pole; iron post stamped "5034" (Coast and Geodetic Survey value).....	4, 956. 631
Milford, 1 mile south of, 8 feet west of milepost 259, 20 feet north of track; iron post stamped "5059 F R R".....	4, 981. 914
Milepost 262, 10 feet north of, 20 feet north of track; iron post stamped "5229 F R R".....	5, 152. 060
Solus, 2.5 miles east of, 100 feet east of bridge 224, 20 feet north of track; iron post stamped "5495 F R R".....	5, 418. 300
Solus, 20 feet south of signboard, 30 feet south of track; iron post stamped "5726".....	5, 648. 580
Frisco, 4.5 miles east of, 15 feet east of milepost 270, 20 feet north of track; iron post stamped "5946".....	5, 869. 029
Frisco, 2 miles east of, 150 feet east of trestle 236, 25 feet north of track; iron post stamped "6364".....	6, 287. 089
Frisco, 100 feet east of station, 30 feet north of track, east side of Main Street; iron post stamped "6450 F R R".....	6, 372. 898

From Frisco west along highway to Newhouse (single line checked by secondary leveling).

Frisco, 100 feet south of station; iron post stamped "6443".....	6, 365. 607
Squaw Springs, 1.3 miles west of, 100 feet south of wagon road, in black rock 1 by 3 by 2 feet out of ground; tablet stamped "5862".....	5, 784. 564
Newhouse, 10 feet east of reservoir; iron post stamped "5320".....	5, 242. 714

Iron Springs special quadrangle.

[Latitude 37° 35'-37° 47' 30"; longitude 113° 10'-113° 26' 30".]

IRON COUNTY.

The elevations in the following list depend upon the height of a bench mark at Lund station accepted as 5,081.473 feet, as determined by the United States Coast and Geodetic Survey.

The leveling was done in 1905 by George F. Maglett.

From Lund southeast along road to Hamilton Fort.

	Feet.
Lund, 200 feet north of station, 50 feet west of main track, 10 feet east of road; iron post stamped "RLund 5092"	5,081.473
Lund, 3 miles southeast of, 20 feet south of road; iron post stamped "RLund 5106"	5,096.488
Lund, 6 miles southeast of, 20 feet south of road; iron post stamped "RLund 5131"	5,120.990
Lund, 9 miles southeast of, 20 feet south of road; iron post stamped "RLund 5168"	5,158.961
Lund, 12 miles southeast of, 20 feet south of road; iron post stamped "RLund 5203"	5,193.201
Lund, 15 miles southeast of, 15 feet south of road; iron post stamped "RLund 5263"	5,253.879
Lund, 18 miles southeast of, 20 feet south of road; iron post stamped "RLund 5317"	5,307.685
Lund, 20.75 miles southeast of, 100 feet south of road, 15 feet northeast of old rock house; iron post stamped "RLund 5365"	5,355.096
Lund, 23 miles southeast of, 400 feet southwest of Root's house, 20 feet southwest of road; iron post stamped "RLund 5414"	5,404.711
Iron Springs, 0.25 mile east of, 20 feet east of road forks; iron post stamped "RLund 5470"	5,460.741
Iron Springs, 3.25 miles south of, 50 feet south of road forks; iron post stamped "RLund 5495"	5,485.352
Iron Springs, 6.5 miles south of, 2.5 miles west of Hamilton Fort, 20 feet northeast of road; iron post stamped "RLund 5497"	5,487.438
Iron Springs, 9.25 miles south of, 0.25 mile west of Hamilton Fort, 15 feet north of road forks; iron post stamped "RLund 5631"	5,621.533

From Hamilton Fort west to Duncan's ranch, thence north to point 9 miles southeast of Lund.

Shirts Lake, 200 feet west of, 1 mile northwest of house, 10 feet west of road; iron post stamped "RLund 5454"	5,444.597
Hamilton Fort, 7 miles west of, 15 feet north of Cedar City and Pinto Creek road; iron post stamped "RLund 5689"	5,679.651
Duncan's ranch, 600 feet northeast of house, 30 feet south of road forks; iron post stamped "5983 RLund"	5,972.470
Duncan's ranch, 3 miles north of, 3,000 feet north of road forks, 20 feet east of road; iron post stamped "RLund 5843"	5,833.382
Duncan's ranch, 11 miles north of, 3.5 miles due west of old rock house, 1,200 feet south of Iron Springs-Antelope road; iron post	5,414.974
Old rock house, 9 miles west of, 4 miles northeast of Antelope Springs, 70 feet south of road forks; iron post stamped "RLund 5367"	5,356.414
Antelope Springs, 5.75 miles northeast of, 3.75 miles north of road forks, 0.5 mile east of Pioche-Hot Springs road; iron post stamped "RLund 5187"	5,177.342

Browns Park, Coalville, Fort Douglas, Gilbert Peak, Hayden Peak, Marsh Peak, Red Creek, Strawberry Valley, Theodore, and Vernal 30' quadrangles (Ashley, Salt Lake, and Uinta 1° quadrangles).

SALT LAKE, SUMMIT, UINTA, UTAH, AND WASATCH COUNTIES.

The elevations in the following list are based upon the heights of bench marks of the United States Geological Survey at Evanston, Wyo., and Echo, Utah, redetermined by the transcontinental precise-level line of the United States Coast and Geodetic Survey.

The leveling was done in the Coalville quadrangle in 1899 and 1900 by L. C. Woodbury and E. W. Glafcke, respectively; in the Gilbert Peak, Marsh Peak, and Vernal quadrangles in 1902 by Glafcke; in the Strawberry Valley and Red Creek quadrangles in 1900 by Glafcke; in the Theodore quadrangle in 1900-1901 by Glafcke; in the Hayden Peak quadrangle in 1897-98 by E. W. Hills and in 1901-2 by Glafcke; and in the Fort Douglas quadrangle in 1899 and 1901 by Woodbury and Glafcke, respectively. Additional leveling was done in the Browns Park and Marsh Peak quadrangles in 1905 by J. H. Kent; in the Fort Douglas quadrangle in 1910 by L. F. Biggs, the work in the latter quadrangle being a portion of the double line from Salt Lake City, Utah, to Grand Junction, Colo.; and in Vernal quadrangle in 1913 by E. C. Burt.

FORT DOUGLAS 30' QUADRANGLE (SALT LAKE 1° QUADRANGLE).

[Latitude 40° 30'-41°; longitude 111° 30'-112°.]

From Salt Lake City east along Denver & Rio Grande R. R. to Kimball's (double-rodged line).

	Feet.
Salt Lake City, in front of Oregon Short Line R. R. station; top of rail....	4, 255. 7
Salt Lake City, corner of State and Fifth streets South, meridian mark at southwest corner of grounds of city and county building, cemented in stone post; bronze tablet stamped "4251 SLak"	4, 252. 905
Salt Lake City, at southeast corner of brick building known as Cook's Hall, at corner of Ninth Street East and Twelfth Street South, on top of projecting brick; cut cross.....	4, 331. 75
Salt Lake City, corner of Eleventh Street East and Twelfth Street South, 2 feet north of sidewalk and 100 feet northeast of street crossing; iron post stamped "4352 SLak".....	4, 354. 597
Salt Lake City, 7.8 miles southeast of, 2.0 miles east of Starbuck's Model Dairy Ranch, in east end of north wall of city waterworks reservoir; top of bolt-head stamped "4736"	4, 738. 53
Salt Lake City, 11.5 miles southeast of, 3.6 miles southeast of city waterworks, 0.25 mile below section house at road crossing, between railroad and creek; iron post stamped "5234 SLak"	5, 236. 460
Barclay, below railroad and above water tank and section house; iron post stamped "6204 SLak"	6, 206. 540
Summit, about 100 feet east of wagon road, on side of hill just below oak brush; iron post stamped "7041 SLak"	7, 042. 650
Summit, 3.7 miles southeast of, beside railroad, back of buildings at Anderson's ranch, about 0.5 mile east of Gogorza; iron post stamped "6304 SLak"	6, 306. 530
Kimball's, fence corner at road crossing; iron post stamped "6364 SLak" ..	6, 366. 315

From Kimball's southeast to Park City (double spur line).

Park City, 3.4 miles northwest of, west side of railroad track, north side of public road, at fence corner; iron post stamped "6636 SLak"	Feet. 6, 637. 528
Park City, 1.0 mile north of, sec. 9, T. 2 S., R. 4 E., at side of public road, 50 feet west of southeast corner of cemetery fence; iron post stamped "6804 SLak"	6, 806. 360
Park City, sec. 16, T. 2 S., R. 4 E., first ward school building, northeast corner of grounds; iron post stamped "6973 SLak"	6, 975. 477

From Deer Park south up Ontario Gulch to top of mountains above Quincy mine and back through Empire Canyon.

Ontario mill, mouth of old drain tunnel, northeast corner of masonry wall, top of foundation stone; chisel mark	7, 275. 21
T. 2 S., R. 4 E., NW. $\frac{1}{4}$ sec. 28, Daily No. 2 mine, northwest corner of stone embankment around front yard of boarding house; aluminum tablet stamped "8176 SLak"	8, 177. 729
T. 2 S., R. 4 E., east side of sec. 29, Quincy mine No. 1, 100 feet west of hoist works, on north slope of divide at head of Empire Canyon, in large quartzite ledge; aluminum tablet stamped "8499 SLak"	8, 500. 914
Daly West mine, 50 feet north of assay office, southeast corner of scales, in heavy timber; marked nail	8, 332. 20
Daly No. 1 mine, southwest corner of hoist works, in foundation stringer; spike	8, 085. 51
T. 2 S., R. 4 E., SW. $\frac{1}{4}$ sec. 21, 300 feet southwest of house at mouth of canyon, west side of narrow canyon, in cliff, 20 feet west of road; aluminum tablet stamped "7658 SLak"	7, 660. 205

From Quincy mine via Brighton, Alta, Bonanza Flat, and Silver Lake to point 4 miles northwest of Brighton Hotel (spur line).

Divide between Bonanza Flat and Big Cottonwood Creek, summit of, 75 feet south of road, in large granite bowlder; aluminum tablet stamped "9750 SLak"	9, 741. 109
Silver Lake, Brighton Hotel, 15 feet north of north end of lake, in large bowlder; aluminum tablet stamped "8739 SLak"	8, 729. 969
Alta Divide, summit of, between Twin Lakes and Little Cottonwood Creek, 20 feet north of trail, in granite ledge, beside rock; aluminum tablet stamped "10002 SLak"	9, 992. 971
Alta, 100 feet north of road between Columbus Mine and Alta, in ledge of limestone on small knoll; aluminum tablet stamped "8594 SLak"	8, 584. 654
Silver Lake, Brighton Hotel, 1.9 miles northwest of, 300 feet north of Big Cottonwood Creek, 50 feet north of road, at clearing, in granite bowlder 6 by 6 by 5 feet; aluminum tablet stamped "8044 SLak"	8, 035. 430
Silver Lake, Brighton Hotel, 4.0 miles northwest of, 250 feet north of creek, 60 feet north of edge of road at Wilson's sawmill, in large granite bowlder; aluminum tablet stamped "7451 SLak"	7, 442. 177

From Salt Lake City south along Denver & Rio Grande R. R. to Riverton.

Salt Lake City, southeast corner of Temple Street South and Third Street West, 13.12 feet west of saloon entrance in Railroad Exchange Hotel, 213.2 feet southeast of southeast corner of Oregon Short Line R. R. passenger station, 5 feet east of curb on Third and Temple streets, 18 feet south of curb on Temple Street South; iron post	4, 260. 136
Salt Lake City, in front of Denver & Rio Grande R. R. station; top of rail ..	4, 226. 5
Salt Lake City, 600 feet south of Utah Portland Cement Works, in base of milepost 38' spike with aluminum tag stamped "4225"	4, 227. 63

Salt Lake City, 2.8 miles south of, in base of milepost 39; spike with aluminum tag stamped "4225".....	Feet. 4, 225. 83
Salt Lake City, 3.9 miles south of, in base of milepost 40; spike with aluminum tag stamped "4233".....	4, 233. 69
Salt Lake City, 4.7 miles south of, 600 feet north of milepost 41, east end of retaining wall of railroad at concrete bridge over small creek; aluminum tablet stamped "4239-1".....	4, 239. 456
Salt Lake City, 5.9 miles south of, in base of milepost 42; spike with aluminum tag stamped "4256".....	4, 257. 26
Salt Lake City, 6.9 miles south of, in base of milepost 43; spike with aluminum tag stamped "4276".....	4, 276. 84
Cahoons, in front of station; top of east rail.....	4, 285. 7
Murray, 0.5 mile north of, in base of milepost 44; spike with aluminum tag stamped "4294".....	4, 294. 82
Murray, 150 feet east of station, southwest corner of American Smelting & Refining Co.'s property, 5 feet west of flagman's cabin, in stone pier 12 by 12 inches; aluminum tablet stamped "4310-2".....	4, 310. 517
Murray, 0.5 mile south of station, in base of milepost 45; spike with aluminum tag stamped "4318".....	4, 318. 760
Murray, 1.5 miles south of, in base of milepost 46; spike with aluminum tag stamped "4332".....	4, 332. 61
Murray, 2.5 miles south of, in base of milepost 47; spike with aluminum tag stamped "4348".....	4, 348. 65
Midvale, 1,000 feet west of station, northeast corner of brick building used as boarding house, 150 feet east of intersection of Main and Center streets, 5 feet above ground; aluminum tablet stamped "4354-3".....	4, 354. 481
Midvale, 0.5 mile south of, in base of milepost 48; spike with aluminum tag stamped "4360".....	4, 360. 95
Midvale, 1.5 miles south of, in base of milepost 49; spike with aluminum tag stamped "4356".....	4, 356. 58
Midvale, 2.5 miles south of, in base of milepost 50; spike with aluminum tag stamped "4372".....	4, 372. 53
Midvale, 3.2 miles south of, northeast corner of concrete culvert 727 A, 10 feet east of track, aluminum tablet stamped "4378-4".....	4, 379. 058
Midvale, 3.5 miles south of, in base of milepost 51; spike with aluminum tag stamped "4380".....	4, 381. 21
Midvale, 4.5 miles south of, in base of milepost 52; spike with aluminum tag stamped "4390".....	4, 390. 94
Riverton, 150 feet north of station, west side of track, in base of telephone pole; spike with aluminum tag stamped "4409".....	4, 410. 28
Riverton, 0.5 mile south of, in base of milepost 54; spike with aluminum tag stamped "4411".....	4, 411. 71
Riverton, 1.5 miles south of, in base of milepost 55; spike with aluminum tag stamped "4417".....	4, 418. 10
Riverton, 2 miles south of, 5 feet east of track, northeast corner of concrete culvert 722 A; aluminum tablet stamped "4426-5".....	4, 426. 676

STRAWBERRY VALLEY 30' QUADRANGLE (SALT LAKE 1° QUADRANGLE).

[Latitude 40°-40° 30'; longitude 111°-111° 30'.]

From Deep Creek west via Strawberry and Daniels creeks to Heber.

Deep Creek, 100 feet north of, 10 feet north of road, 400 feet west of intersection of road with Deep Creek, in large sandstone ledge; bronze tablet stamped "7300 SLak" (the rim of this tablet has been chipped off by Indians).....	7, 301. 548
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Soldier Springs, 360 feet northwest of, in large sandstone ledge 200 feet north of road; bronze tablet stamped "7634 SLak"	Feet. 7, 636. 037
Coal Creek, 200 feet north of, 250 feet north of road in canyon, on south slope of hill, in large sandstone ledge; bronze tablet stamped "7750 SLak" ..	7, 752. 083
Strawberry Creek, 300 feet north of north fork of, 50 feet north of trail, in granite boulder at mouth of draw; bronze tablet stamped "7775 SLak" ..	7, 777. 219
Divide between Strawberry Creek and Daniels Creek, summit of, 250 feet north of trail, in sandstone boulder; bronze tablet stamped "7994 SLak" ..	7, 996. 267
Daniels Canyon, north side of road, west end of grade, at mouth of small draw; iron post stamped "7112 SLak"	7, 113. 668
Daniels Canyon, 20 feet northeast of road, 150 feet southwest of creek, in small clearing, 3.8 feet southeast of canyon; iron post stamped "6580 SLak"	6, 582. 265
Daniels Canyon, 3 miles south of mouth of, 400 feet east of creek, 15 feet east of road on bench; iron post stamped "6227 SLak"	6, 229. 016
J. J. Howe's ranch, mouth of Daniels Canyon, 300 feet northeast of residence, 75 feet north of gate to same, 20 feet northeast of road; iron post stamped "6018 SLak"	6, 020. 976

COALVILLE 30' QUADRANGLE (SALT LAKE 1° QUADRANGLE).

[Latitude 40° 30'–41°; longitude 111°–111° 30'.]

From Kimball via Wanship, Oakley, Knight's ranch, Hallstone, and Park City to Kimball.

Atkinson, SE. $\frac{1}{4}$ sec. 10, T. 1 S., R. 4 E., near railroad, on side of hill opposite Paces ranch on Silver Creek; iron post stamped "6444 SLak"	6, 446. 285
Wanship, sec. 20, T. 1 N., R. 5 E., in northwest corner of Latter Day Saints' meetinghouse yard; iron post stamped "5860 SLak"	5, 862. 248
Rockport, sec. 4, T. 1 S., R. 5 E., east side of wagon road, at southwest corner of public hall; iron post stamped "6009 SLak"	6, 010. 794
Peoa, sec. 23, T. 1 S., R. 5 E., in angle of fence at southwest corner of H. B. Williams's yard; iron post stamped "6189 SLak"	6, 191. 245
Oakley, 0.5 mile north of, sec. 19, T. 1 S., R. 6 E., southwest of crossroads; iron post stamped "6515 SLak"	6, 517. 313
Marion, 0.5 mile north of, sec. 33, T. 1 S., R. 6 E., northeast of crossroads, beside main road; iron post stamped "6451 SLak"	6, 453. 401
Kamas, sec. 14, T. 2 S., R. 6 E., southwest corner of Main Street school grounds; iron post stamped "6473 SLak"	6, 474. 619
T. 3 S., R. 6 E., near quarter corner on north side of sec. 4, at side of county road on Provo River, in front of James A. Knight's house; iron post stamped "6505 SLak"	6, 507. 261
Hallstone, T. 2 S., R. 5 E., sec. 32, at junction of Provo River-Heber road with Park City-Heber road, 0.25 mile east of and across creek from Davis's ranch, in front of schoolhouse; iron post stamped "5959 SLak"	5, 961. 205
T. 2 S., R. 4 E., sec. 1, on summit of divide between Park City and canyon leading down to Provo River, at point where wagon road crosses old railroad grade; iron post stamped "6726 SLak"	6, 728. 342

From Hallstone through Heber to Midway.

T. 3 S., R. 5 E., sec. 18, in southeast corner of Riverdale school yard; iron post stamped "5714 SLak"	5, 716. 385
Heber, near southeast corner of courthouse grounds, in top of stone post; bronze tablet stamped "5593 SLak"	5, 595. 034
Midway, sec. 35, T. 3 S., R. 4 E., at corner of Main Street and Park City road, on lot owned by Wallace E. Potter; iron post stamped "5567 SLak" ..	5, 569. 245

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From Wanship via Union Pacific R. R. to Coalville.

T. 2 N., R. 5 E., near quarter corner on north side of sec. 33, 136 feet east of highway crossing; iron post stamped "5708 SLak".....	Feet. 5, 710. 381
Coalville, opposite southeast corner of station; top of east rail.....	5, 572. 1
Coalville, 0.5 mile northeast of, sec. 8, T. 2 N., R. 5 E.; south meridian mark stamped "5607 SLak".....	5, 608. 843
Coalville, 0.6 mile northeast of sec. 8, T. 2 S., R. 5 E.; north meridian mark stamped "5583 SLak".....	5, 585. 069

From Coalville east along wagon road up Chalk Creek through Upton to Wyoming State corner.

T. 2 N., R. 5 E., sec. 11, on east side of county road, 300 feet south of bend in road, below mouth of "The Narrows"; iron post stamped "5746 SLak".....	5, 748. 199
T. 2 N., R. 6 E., sec. 5, at forks of main Chalk Creek road and road up south fork of Chalk Creek, across creek from and 0.5 mile northwest of Huffman's ranch; iron post stamped "5938 SLak".....	5, 940. 136
Upton, 0.5 mile east of post office, sec. 26, T. 3 N., R. 6 E., at southeast corner of school yard, north side of county road; iron post stamped "6182 SLak".....	6, 184. 058
T. 2 N., R. 7 E., sec. 4, 160 feet east of bridge across Chalk Creek, 175 feet southeast of Deming schoolhouse, south side of county road; iron post stamped "6451 SLak".....	6, 452. 996
T. 3 N., R. 7 E., sec. 35, at forks of main Chalk Creek road and East Canyon-Red Hole road, 40 feet east of Chalk Creek road and 100 feet north of Red Hole road, 200 feet below crossing of East Fork; iron post stamped "6712 SLak".....	6, 713. 834
T. 3 N., R. 8 E., sec. 20, 2 miles down canyon from Wyoming State corner, 125 feet southeast of log house; iron post stamped "6897 SLak".....	6, 898. 867
T. 3 N., R. 8 E., sec. 16, Wyoming State corner, at head of Chalk Creek, in red stone post; bronze tablet stamped "7150 SLak Evan".....	7, 151. 587

From Coalville north along Union Pacific R. R. to Echo.

Grass Creek, sec. 32, T. 3 N., R. 5 E., west side of county road, 0.5 mile north of station, in front of brick residence; iron post stamped "5486 SLak".....	5, 488. 327
Echo, T. 3 N., R. 4 E., sec. 24, east side of wagon road at south end of street, under high hill; iron post stamped "5465 SLak".....	5, 467. 145
Echo, main line of Union Pacific R. R., in front of station; top of rail.....	5, 460. 7

From Oakley east along wagon road up Weber Canyon.

T. 1 S., R. 6 E., sec. 12, at forks of main canyon road with road up south fork of Weber Canyon; iron post stamped "6787 SLak".....	6, 788. 392
T. 1 N., R. 7 E., sec. 31, at forks of main Weber River road and road leading over divide to South Fork of Chalk Creek, across river from and about 1 mile northeast of George Wiles's ranch; iron post stamped "6983 SLak".....	6, 985. 143
T. 1 N., R. 7 E., sec. 26, at forks of road in main Weber Canyon with road leading up Smith and Moorehouse Canyon; iron post stamped "7308 SLak".....	7, 309. 507
T. 1 N., R. 8 E., sec. 30, 2 miles northeast of high timbered peak on south side of Weber River, 0.25 mile south of Weber River, 10 feet south of road, 200 feet south of large dark rock north of wagon road; iron post stamped "7607 SLak Evan".....	7, 609. 005
T. 1 N., R. 8 E., sec. 21, 50 feet west of bridge over Weber River, at old bridge and ford on Larrabee's ranch, 0.5 mile south of Larrabee's house and log barn, about 150 yards northeast of small lake, rock on road south and west of river; bronze tablet stamped "7682 Evan".....	7, 683. 884

T. 1 N., R. 8 E., sec. 23, 100 feet north of old setting of sawmill, at foot of divide, about 3 miles west of Summit Pass over Uinta Mountains, at forks of wagon road to Holiday Park; iron post stamped "7855 Evan" ..	Feet. 7, 857. 240
From Kamas east along Provo River to divide between South Fork and Soapstone Basin.	
T. 3 S., R. 6 E., east side of sec. 12, 1.3 miles east of Woodland post office, 250 feet north of bridge across Provo River, 30 feet southwest of road; iron post stamped "6804 SLak"	6, 806. 009
T. 3 S., R. 7 E., sec. 15, R. L. Jones's ranch, 250 feet northwest of house, between forks of road up east and west forks of Provo Creek, 300 feet east of Provo River; iron post stamped "7129 SLak"	7, 130. 638
T. 3 S., R. 7 E., sec. 24, 0.5 mile southeast of Oor ranch, between forks of road, at base of grade, 0.5 mile north of South Fork of Provo River; iron post stamped "7522 SLak"	7, 524. 048
T. 3 S., R. 8 E., about northeast corner of sec. 29, unsurveyed township, divide between South Fork of Provo River and Soapstone Basin, 70 feet south of road, in large sandstone boulder; bronze tablet stamped "9285 SLak"	9, 287. 059

HAYDEN PEAK 30' QUADRANGLE (UINTA 1' QUADRANGLE).

[Latitude 40° 30'–41°; longitude 110° 30'–111°.]

From sec. 30, T. 3 N., R. 10 E., along upper Bear River and Yellow Creek valleys (part of circuit extended from Evanston, Wyo.).

T. 3 N., R. 10 E., sec. 30, east bank of Bear River, 0.2 mile above mouth of West Fork, 5 feet west of road; iron post stamped "8038 Evan"	8, 040. 083
T. 3 N., R. 10 E., sec. 31, on West Fork of Bear River, 1 mile southwest of mouth, west side of wagon road, 500 feet northwest of river; iron post stamped "8106 Evan"	8, 108. 260
T. 2 N., R. 10 E., sec. 9, 0.5 mile east of Bear River, 3.25 miles above mouth of West Fork, large white flint rock at intersection of roads; copper bolt stamped "8327 Evan"	8, 328. 902
T. 2 N., R. 10 E., sec. 17, 180 feet east of mouth of East Fork of Bear River; iron post stamped "8330 Evan"	8, 331. 394
T. 2 N., R. 10 E., sec. 20, 2 miles northeast of mouth of Stillwater Fork, 0.2 mile east of Bear River; iron post stamped "8418 Evan"	8, 419. 941
T. 2 N., R. 10 E., sec. 32, 0.8 mile above mouth of Hayden Fork, 12 feet east of wagon road, 300 feet from two old cabins on east bank of stream; iron post stamped "8587 Evan"	8, 588. 388
T. 1 N., R. 10 E., sec. 4, on Stillwater Fork of Bear River, 1.25 miles south-east of mouth of Hayden Fork, 10 feet west of wagon road, east side of river; iron post stamped "8661 Evan"	8, 663. 280
T. 1 N., R. 10 E., sec. 15, on Stillwater Fork of Bear River, 3.6 miles south-east of mouth of Hayden Fork, east side of river; iron post stamped "8792 Evan"	8, 794. 017
T. 1 N., R. 10 E., sec. 7, 3 miles from Bear River ford, west side of Hayden Fork, south of road junction; iron post stamped "8805 Evan"	8, 806. 517
T. 1 N., R. 9 E., sec. 24, on Hayden Fork, 6 miles above its junction with Bear River, 12 feet east of wagon road, west side of fork, 2 miles above bridge; iron post stamped "9048 Evan"	9, 050. 210
T. 1 N., R. 9 E., sec. 13, 3 miles southwest of Hayden Fork, 25 feet south-east of wagon road, 8 feet north of large splintered rock; bronze tablet stamped "9466 Evan"	9, 441. 341
T. 1 N., R. 8 E., sec. 14, 3.5 miles southwest of Hayden Fork, 0.8 mile east of high divide between Hayden Fork and West Fork; iron post stamped "9555 Evan"	9, 530. 538

T. 1 N., R. 9 E., sec. 15, 2 miles east of Summit Pass over range at head of Weber River, 2 miles north of Hayden Fork, top of divide between Hayden Fork valley and Deer Creek valley, 6 feet west of wagon road; iron post stamped "9960 Evan".....	Feet. 9, 935. 952
T. 2 N., R. 9 E., sec. 33, 160 yards south of west branch of Deer Creek, in Deer Creek valley; iron post stamped "9000 Evan".....	8, 976. 062
T. 2 N., R. 9 E., sec. 19, 1.8 miles south of old Moss sawmill, about 0.1 mile west of West Fork of Deer Creek, 1 mile north of old setting of Moss sawmill, about 200 yards east of circular group of pines, 25 feet south of wagon road; iron post stamped "9460 Evan".....	9, 435. 724
T. 2 N., R. 9 E., sec. 17, 200 feet south of new Moss sawmill, 12 feet north of most southerly cabin in sawmill group; iron post stamped "9193 Evan".....	9, 168. 673
T. 3 N., R. 9 E., sec. 31, 21 feet west of Yellow Creek, on road over divide to Deer Creek valley and sawmill, 45 feet west of road crossing of a west branch of Yellow Creek; iron post stamped "8237 Evan".....	8, 212. 731
T. 3 N., R. 9 E., sec. 18, 15 feet east of junction of Yellow Creek road and road leading from it to Bear River, 40 rods west of Yellow Creek, 3 miles southeast of emigrant road crossing of Yellow Creek, 200 yards northeast of long quaking-aspen grove on west side of road, about 0.5 mile west of long bare-topped hill across creek; iron post stamped "7608 Evan".....	7, 583. 853

From divide at head of Weber River over pass and down to head of Weber River.

T. 1 N., R. 9 E., sec. 8, 1 mile northeast of pass at head of Weber River, 300 yards north of lake, 100 feet north of small spring by lone balsam tree, in large rock 8 feet west of wagon road by rocky ravine; bronze tablet stamped "9533 Evan".....	9, 509. 168
T. 1 N., R. 9 E., sec. 17, 0.25 mile south of high, round-topped, bare hill, 200 yards south of abandoned coal mine, top of divide near head of Bear River; iron post stamped "9989 Evan".....	9, 965. 006
T. 1 N., R. 9 E., sec. 18, 0.25 mile north of pass over divide near head of Weber River, 0.8 mile north of high bald-topped rocky peak with many rock slides on east side, on top of green bald hill, just north of pass near head of Weber River; iron post stamped "10402 Evan".....	10,404.144
T. 1 N., R. 9 E., sec. 18, 0.2 mile west of summit of divide, 5 feet south of road to Weber River and valley, 1 mile north of middle one of three high rocky peaks, in rock; bronze tablet stamped "9834 Evan".....	9, 835. 541
T. 1 N., R. 9 E., sec. 18, 1 mile west of Summit Pass over Uinta Mountains, about 0.5 mile southwest of rough ledge of yellow rocks above pine grove, 12 feet south of wagon road down Weber River; iron post stamped "9222 Evan".....	9, 224. 067

From divide between Big Muddy Creek and Blacks Fork south to Fish Lake, thence east and north along Blacks Fork to mouth of west fork of Blacks Fork of Green River.

T. 3 N., R. 11 E., sec. 25, 1.7 miles northwest of sawmill on Fish Creek, at forks of old and new roads, in heavy pine timber, 300 feet southwest of park, in large granite boulder; aluminum tablet stamped "9615 Evan".....	9, 617. 089
T. 2 N., R. 11 E., sec. 1, 950 feet southeast of Fish Lake, 20 feet east of road in timber, 300 feet southeast of log hut, in large boulder; aluminum tablet stamped "9762 Evan".....	9, 764. 137
T. 2 N., R. 12 E., sec. 5, 3 miles southeast of Fish Lake, 1.25 miles below intersection of Fish Lake road and Blacks Fork road, at road forks, in boulder beside mound of rocks; aluminum tablet stamped "9081 Evan".....	9, 082. 676
T. 3 N., R. 12 E., sec. 28, 0.8 mile north of forks of Blacks Fork, 40 feet east of road, 500 feet north of small slough or park, 150 feet west of river, on bank, in large boulder; bronze tablet stamped "8816 Evan".....	8, 817. 852

From mouth of east fork of Blacks Fork east over divide to Smith Fork.

T. 3 N., R. 12 E., sec. 36, at summit and east edge of divide between Blacks Fork and Smith Fork, 10 feet north of road; iron post stamped "9900 Evan"	Feet. 9, 901. 195
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From east fork of Blacks Fork of Green River to Two Baldys.

East fork of Blacks Fork, 800 feet southeast of junction of east and west forks of, 750 feet above ford, at right of wagon road, in small park, in large boulder; bronze tablet stamped "9363 Evan"	9, 364. 640
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From divide between south fork of Provo River and Soapstone Basin east to Wolf Creek.

Old sawmill site, upper side of Soapstone Canyon, 175 feet southeast of road to Rhodes Canyon, near small gulch or drain in open country, in large limestone ledge; bronze tablet stamped "9390 SLak"	9, 391. 827
Rhodes Canyon, west side of, 5 feet from edge of timber, in large granite boulder; bronze tablet stamped "9383 SLak"	9, 384. 408

GILBERT PEAK 30' QUADRANGLE (UINTA 1° QUADRANGLE).

[Latitude 40° 30'-41°; longitude 110°-110° 30'.]

From west fork of Smith Fork at old steel sawmill southeast to Gilberts Creek, thence south to Two Baldys.

West Fork of Smith Fork River, 400 feet west of, 500 feet northwest of ford at old steel sawmill site; iron post stamped "9373 Evan"	9, 374. 205
Gilbert Meadows, 1.5 miles south of south end of, 100 feet south of edge of small park in pine timber, near trees blazed and marked all around, in large boulder; bronze tablet stamped "9905 Evan"	9, 907. 078
Gilbert Meadows, 4.94 miles south of, in small saddle on divide, between East and West forks of Smith Fork, 4 miles N. 65° W. of Gilbert Peak, 125 feet due east of small lake, in rock; bronze tablet stamped "10690 Evan" ..	10, 691. 821
Two Baldys, saddle between, about 4 miles due west of Gilbert Peak, divide between Blacks Fork and Smith Fork, in large boulder; bronze tablet stamped "11428 Evan"	11, 430. 022

From Gilbert Meadows by south side of China Lake to west branch of Henrys Fork.

Gilbert Meadows, 1 mile east of, top of divide between East and West forks of Smith Fork, 10 feet north of road to China Lake, near mound of rock, in large boulder; bronze tablet stamped "9938 Evan"	9, 939. 282
China Lake, 0.23 mile southeast of, 200 yards west of Conger cabin, 10 feet north of road, 400 yards west of east fork of Smith Fork, in large boulder; bronze tablet stamped "9401 Evan"	9, 402. 771
China Lake, 2.3 miles east of, top of divide between Henrys Fork and Smith Fork, 150 feet east of forks of blazed trails, in large boulder; bronze tablet stamped "10203 Evan"	10, 204. 396

RED CREEK 30' QUADRANGLE (UINTA 1° QUADRANGLE).

[Latitude 40°-40° 30'; longitude 110° 30'-111°.]

From Wolf Creek southeast down Du Cheme River to upper crossing of Heber road.

Wolf Creek, 0.5 mile west of, northeast of junction of west fork of Wolf Creek, 75 feet north of road, in large granite boulder; bronze tablet stamped "7305 SLak"	7, 306. 938
Du Cheme River, 0.25 mile east of, 100 feet east of edge of bench, 200 feet southwest of trail, in large granite boulder; bronze tablet stamped "6988 SLak"	6, 979. 185

Du Chesne River, 0.25 mile east of, 300 feet east of trail, at point of red sandstone cliffs, in large sandstone ledge; bronze tablet stamped "6857 SLak".....	Feet. 6, 859. 091
Indian Farms, 0.25 mile south of, 20 feet east of trail, 500 feet east of Du Chesne River; iron post stamped "6624 SLak".....	6, 625. 542
Du Chesne River, 0.25 mile east of upper crossing of road to Heber, in west face of large sandstone ledge 9 feet across, 0.2 mile east of road fork, 150 feet west of base of sandstone ridge in sagebrush flat; point on ledge (tablet removed by Indians).....	6, 429. 280

From Du Chesne River at upper crossing south via Heber road to Deep Creek.

Du Chesne River and Red Creek, divide between, on south side of Dry Canyon (commonly known as "Nigger Heaven"), in sandstone ledge, 50 feet north of road; bronze tablet stamped "6851 SLak".....	6, 853. 383
Du Chesne River, 7.5 miles south of, 30 feet north of Heber road, in sandstone ledge on small divide; bronze tablet stamped "6717 SLak".....	6, 719. 176
Red Creek, 3.5 miles northeast of, on east slope of divide, 250 feet south of road, 0.8 mile east of forks of road to Fort Du Chesne and upper crossing, in north end of long sandstone ridge; bronze tablet stamped "6560 SLak".....	6, 562. 061
Red Creek, 1,000 feet east of, south side of road ascending to terrace, in sandstone boulder 7 by 9 by 8 feet; bronze tablet stamped "6553 SLak".....	6, 554. 552
Red Creek and Current Creek, top of divide between, 1.25 miles east of Current Creek and 50 feet north of old trail over divide, in south face of large sandstone ledge 10 by 10 by 8 feet; bronze tablet stamped "7104 SLak".....	7, 105. 702
Current Creek and Deep Creek, divide between, 10 feet to right of road, in large sandstone ledge; bronze tablet stamped "7393 SLak".....	7, 395. 610

From upper crossing east down Du Chesne River.

Du Chesne River, 3.5 miles southeast of upper crossing of, 100 yards north of first ford across river, 60 feet east of road; iron post stamped "6268 SLak".....	6, 258. 914
Rock Creek, 300 yards east of, 0.25 mile east of mouth of, north edge of Tabby farm, south of road near fence; iron post stamped "6029 SLak"....	6, 030. 899

THEODORE 30° QUADRANGLE (UINTA 1° QUADRANGLE).

[Latitude 40°-40° 30'; longitude 110°-110° 30'.]

From Rock Creek down Du Chesne River to Lake Fork bridge.

Rock Creek, 3 miles southeast of, 500 feet east of Du Chesne River, 25 feet east of trail; iron post stamped "5900 SLak".....	5, 901. 955
Rock Creek, 6.8 miles south of, 0.25 mile east of Du Chesne River, at forks of road; iron post stamped "5789 SLak".....	5, 791. 340
Du Chesne bridge, 300 feet east of, at forks of road over Blue Bench, 3.5 miles above Strawberry Creek; iron post stamped "5648 SLak".....	5, 639. 247
Theodore, mouth of Strawberry Creek, 100 feet east of Du Chesne River, at point of ridge, forks of roads to "Nigger Heaven" and up Du Chesne River; iron post stamped "5517 SLak".....	5, 508. 463
Indian Canyon, 1.25 miles west of, 50 feet north of road, 500 feet north of river, on first bench, 0.25 mile west of point of timber; iron post stamped "5378 SLak".....	5, 368. 988
Du Chesne River, 300 feet north of, on side of hill at point where road goes over bench to Lake Fork, in sandstone ledge; bronze tablet stamped "5314 SLak".....	5, 305. 479
Lake Fork bridge, 100 feet east of, at mouth of Lake Fork, on north side of road; iron post stamped "5117 SLak".....	5, 118. 634

From Lake Fork bridge and Du Chesne River northwest along road to upper crossing of Du Chesne River.

Lake Fork bridge, 3.1 miles northwest of, 500 feet west of road, 0.25 mile west of river, 200 feet north of small knoll, on large sandstone ledge; bronze tablet stamped "5170 SLak".....	Feet. 5, 171. 844
Lake Fork bridge, 6.20 miles northwest of, 300 feet east of road and fence at Red Caps farm, on northwest end of long sandstone ridge; bronze tablet stamped "5348 SLak".....	5, 350. 063
Blue Bench, east edge of, 15 feet north of road, 11 miles northwest of Lake Fork bridge; iron post stamped "5950 SLak".....	5, 952. 198
Blue Bench, 3 miles west of, about center of east edge, 10 feet south of road, 0.25 mile south of lone bunch of cedars; iron post stamped "5989 SLak".....	5, 991. 144

From mouth of Lake Fork east along road toward Fort Du Chesne.

Du Chesne bridge, 1.8 miles northeast of, 4 miles east of Lake Fork bridge, on edge of second bench, 30 feet north of road to Fort Du Chesne; iron post stamped "5150 Evan".....	5, 124. 915
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MARSH PEAK 30' QUADRANGLE (ASHLEY 1' QUADRANGLE).

[Latitude 40° 30'-41°; longitude 109° 30'-110.]

From point near Burnt Fork, Wyo., to Vernal, thence southwest via Halfway Hollow and Fort Du Chesne to Lake Fork bridge.

Burnt Fork, Wyo., 4 miles south of post office, in Utah, 0.5 mile west of Birch Creek, 6 feet north of road, in large flat boulder; bronze tablet stamped "7537 Evan".....	7, 512. 561
Hills ranch, 2 miles southeast of, 250 feet east of east road to Vernal on side of hill, 0.5 mile east of Zeke Edwards's sawmill, in sandstone ledge; bronze tablet stamped "7896 Evan".....	7, 871. 677
Carter dugway, top of, 20 feet west of road, 12 miles southeast of Burnt Fork, in limestone ledge; bronze tablet stamped "8760 Evan".....	8, 735. 229
Lodgepole Creek, 0.34 mile south of, top of divide between Lodgepole Creek and Sheep Creek valleys, 400 feet north of Sheep Creek canal, 25 feet east of road, in limestone boulder; bronze tablet stamped "8772 Evan".....	8, 746. 809
Sheep Creek, 750 feet south of, top of ridge, at edge of large park, 40 feet west of road, in large boulder; bronze tablet stamped "8682 Evan".....	8, 657. 346
Beaver Creek, 75 feet north of, at southeast end of park, in head of small canyon, 300 feet southeast of Sheep Creek, 4 feet north of road, in ledge of sandstone; bronze tablet stamped "8477 Evan".....	8, 452. 165
Icy Hill dugway, center of, 6 feet west of road, 0.9 mile south of Carters Creek, in sandstone ledge; bronze tablet stamped "8250 Evan".....	8, 225. 525
Young Springs, 300 feet north of, east of ford, 12 feet south of road, in large boulder; bronze tablet stamped "8419 Evan".....	8, 394. 538
Summit of Uinta Mountains, 3.7 miles south of Young Springs, 4 feet east of road, in sandstone ledge; bronze tablet stamped "9893 Evan".....	9, 867. 649
Pat Carl sawmill, 4 miles southeast of summit, 300 feet north of sawmill set, 15 feet north of road, in large boulder; bronze tablet stamped "9589 Evan".....	9, 564. 484
Oakes sawmill, 0.25 mile south of, 300 feet east of Trout Creek, 15 feet south of road, in large boulder; bronze tablet stamped "9312 Evan".....	9, 287. 065
Old Government sawmill, 0.3 mile south of, in south end of Government Park, at intersection of old corduroy road, in sandstone rock 6 by 4 by 3 feet; bronze tablet stamped "9132 Evan".....	9, 107. 294
Taylor's Canyon, top of hill, south of road, 30 feet west of another road, 2.85 miles southeast of Government sawmill, 1.2 miles north of Dippens, in large sandstone boulder; bronze tablet stamped "9008 Evan".....	8, 983. 338

Dodds cabin, 1.3 miles southeast of, 19 miles northwest of Vernal, 10 feet east of road, in aspen timber, in large boulder; bronze tablet stamped "8781 Evan"	Feet. 8,756.621
Ashley dugway, foot of, 14 miles north of Vernal, 30 feet east of road, in sandstone boulder 8 by 8 by 5 feet; bronze tablet stamped "7960 Evan" ..	7,934.589
Ashley Hill, foot of, 30 feet west of road, in cedars, 12 miles north of Vernal, in sandstone ledge; aluminum tablet stamped "6616 Evan"	6,591.129
Spring Creek, 300 feet west of, 2.5 miles south of Ashley Hill, 5 feet west of road, in sandstone ledge; aluminum tablet stamped "6125 Evan" ...	6,100.317
William Gibson's ranch, 2.6 miles northwest of, 20 feet north of road, in center of sand gulch, on sandstone ledge; aluminum tablet stamped "5744 Evan"	5,719.026
William Gibson's ranch, center of sec. 2, T. 4 S., R. 21 E., east side of road, north side of gate, in front yard, edge of lawn, large sandstone shaft in ground; aluminum tablet stamped "5400 Evan"	5,375.390

From sec. 17, T. 3 S., R. 21 E., southwest along road down Spring Creek to Ashley Creek, thence northwest along road up Dry Fork to Dry Fork village (double-rodged line).

T. 3 S., R. 21 E., S. $\frac{1}{2}$ sec. 17, 300 feet west of Spring Creek, 2.5 miles south of Ashley Hill, 5 feet west of road, in sandstone ledge; tablet stamped "6098"	6,100.365
T. 3 S., R. 21 E., S. $\frac{1}{2}$ sec. 30, near mouth of Dry Fork, 1,000 feet west of Brown's house, 200 feet from road fork, between roads from Vernal to Burnt Fork and Dry Fork, in boulder; tablet stamped "5822"	5,824.422
T. 3 S., R. 20 E., SW. $\frac{1}{4}$ sec. 24, in Dry Fork Canyon, near mouth of Cinder Point Canyon, 10 feet south of road, on large boulder	6,059.456
T. 3 S., R. 20 E., NW. $\frac{1}{4}$ sec. 23, 1 mile south of ranch house, in Dry Fork Canyon, on southwest side of road, 50 feet west of gate on northeast side of road, in sandstone ledge; tablet stamped "6296"	6,297.918
Dry Fork village, T. 3 S., R. 20 E., near schoolhouse, in boulder; tablet stamped "6467"	6,469.428

From Lonetree to Bridgeport (part of line).¹

Linwood, forks of main road and road to Linwood store; iron post stamped "6024"	6,014.228
Finches ranch, opposite, on summit; iron post stamped "5977"	5,976.533

BROWNS PARK QUADRANGLE (ASHLEY 1° QUADRANGLE).

[Latitude 40° 30'-41°; longitude 109°-109° 30'.]

From Lonetree to Bridgeport (part of line).²

Crouses ranch, 50 feet west of road, between residence and barn, in stone on bank; tablet stamped "5440"	5,439.335
Diamond Mountain, at foot of, in stone opposite road to spring; tablet stamped "5688"	5,689.863

VERNAL 30' QUADRANGLE (ASHLEY 1° QUADRANGLE).

[Latitude 40°-40° 30'; longitude 109° 30'-110°.]

From Vernal southwest along road to point 5.5 miles west of Fort Du Chêne.

Vernal, southeast corner of Ashley Cooperative Store building, in capstone; aluminum tablet stamped "5356 Evan"	5,331.471
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¹ For other parts of this line see Twin Buttes and Aspen Mountains quadrangles, Wyo. (Bull. 558), and Browns Park quadrangle, Utah.

² For other parts of this line see Twin Buttes and Aspen Mountains quadrangles, Wyo. (Bull. 558), and Marsh Peak quadrangle, Utah.

Vernal, 3 miles west of, at turn due west in telephone road to Vernal and Fort Duchesne, 5 feet west of corner of crossroads, in sandstone boulder; aluminum tablet stamped "5477 Evan".....	Feet. 5, 452. 121
Vernal, 5.9 miles west of, west side of open cut, top of divide between Ashley Valley and Halfway Hollow, in sandstone ledge; aluminum tablet stamped "5801 Evan".....	5, 776. 225
Vernal, 9.5 miles west of, 0.6 mile east of Halfway Hollow, 75 feet north of stage road, at point of sandstone ridge and dry wash; aluminum tablet stamped "5301 Evan".....	5, 275. 558
Vernal, 13 miles west of, 60 feet north of road, point of ridge 2.5 miles east of Halfway Hollow, in sandstone ledge; aluminum tablet stamped "5048 Evan".....	5, 023. 311
Halfway station, between Vernal and Fort Duchesne, 200 feet south of forks of road, in large sandstone boulder; aluminum tablet stamped "5030 Evan".....	5, 004. 869
Fort Duchesne, 7.8 miles east of, 3.5 miles west of Halfway Hollow, 25 feet south of road, top of divide between Ute Fork and Halfway Hollow, in sandstone ledge; aluminum tablet stamped "5305 Evan".....	5, 279. 721
Fort Duchesne, 4.1 miles east of, 1 mile east of Gilsonite mines on the Strap, base of sandstone cliff, in sandstone ledge; aluminum tablet stamped "5118 Evan".....	5, 092. 803
Fort Duchesne, 10.9 feet south of point of southeast corner of quartermaster's office, 17.5 feet west of gate, in yard, in sandstone in ground; aluminum tablet stamped "5016 Evan".....	4, 990. 643
Fort Duchesne, 5.5 miles west of, 225 feet north of road, at point of rocks; aluminum tablet stamped "5029 Evan".....	5, 003. 571

From point 5.9 miles southwest of Vernal along highways south to Ouray, thence northwest to Fort Duchesne.

Vernal, 5.9 miles southwest of, west side of open cut, top of divide between Ashley Valley and Halfway Hollow, in sandstone ledge; aluminum tablet stamped "5801 Evan".....	5, 776. 225
Vernal, 6.5 miles southwest of, on Fort Duchesne road, 10 feet north of triangle at fork of road to oil wells, on small rock ledge 2 feet north of 4-foot boulder; cross mark.....	5, 639. 88
Vernal, 7.2 miles southwest of, 800 feet south of fork of roads to Ouray and Fort Duchesne, 100 feet north of point where Ouray road cuts across ridge, in stump on east side of road; spike.....	5, 530. 56
Vernal, 8.3 miles southwest of, on Ouray road one-half mile south of crossroads, on east end of rock outcrop 75 feet west of road; bronze tablet stamped "5432".....	5, 431. 862
Vernal, 9.3 miles south of, 240 feet west of road to Ouray, on west side of small knoll; cross mark on rock.....	5, 303. 82
Vernal, 10.2 miles south of, 160 feet west of road to Ouray, in side of claim stake; spike. Stake marked: North side, "SE. cor. Win. No. 25;" south side, "NW. cor. Win. No. 16;" east side, "SW. cor. Win. No. 11;" west side, "NE. cor. Win. No. 28".....	5, 287. 88
Vernal, 10.8 miles south of, 20 feet east of road to Ouray, in top of claim stake; spike. Stake marked: North side, "SE. cor. Win. No. 28;" south side, "NW. cor. Win. No. 15;" east side, "SW. cor. Win. No. 16;" west side, "NE. cor. Win. No. 29".....	5, 223. 15
Vernal, 11.3 miles south of, 60 feet east of road to Ouray, on rock on hillside; bronze tablet stamped "5158".....	5, 157. 743
Vernal, 12.3 miles south of, 30 feet northwest of road to Ouray, in winding canyon, on top of 5-foot boulder; cross mark.....	5, 026. 15

Vernal, 12.8 miles south of, 35 feet west of road to Ouray, witnessed by rock pile 5 feet east; top of rock set in ground	Feet. 4, 978. 00
Vernal, 13.3 miles south of, 40 feet southeast of road to Ouray, 60 feet northeast of 6-inch tree, 430 feet southwest of 14-inch tree, on north side of dry wash, top of 2-foot bowlder; painted circle.....	4, 926. 62
Vernal, 14.1 miles south of, 3.7 miles north of Green River, 60 feet south of road to Ouray, in winding canyon, on top of east one of two 6-foot bowlders; bronze tablet stamped "4866".....	4, 866. 291
Vernal, 14.9 miles south of, 2.9 miles north of Green River, 1 foot west of Vernal-Ouray road, on top of 3-foot bowlder; chiseled square, painted "U. S. 4785 T. B. M.".....	4, 785. 25
Vernal, 15.9 miles south of, 10 feet west of Vernal-Ouray road, on bench on east side of 6-foot bowlder; center of chiseled square, painted "U. S. 4740 T. B. M.".....	4, 739. 56
Vernal, 17.1 miles south of, 0.7 mile north of Green River, 200 feet east of Vernal-Ouray road, 30 feet east of large rock outcrop, on 4-foot bowlder; chiseled square, painted on bowlder, "U. S. 4711 T. B. M.".....	4, 711. 09
Vernal, 17.5 miles south of, 0.3 mile north of Green River, 2 feet north of Vernal-Ouray road, on bench at south end of long rock outcrop; bronze tablet stamped "4693," painted on rock, "U. S. 4693 P. B. M.".....	4, 693. 287
Ouray, 13.6 miles northeast of, 1 mile west of Green River, 80 feet northwest of road forks to Vernal and Green River, top of rock set in ground; chiseled square, "U. S. 4729 T. B. M." painted on rock.....	4, 728. 87
Ouray, 13 miles northeast of, 2 miles west of Green River, 5 feet north of Vernal-Ouray road, top of rock outcrop over which road passes; chiseled square, painted on rock, "U. S. 4797 T. B. M.".....	4, 796. 75
Ouray, 12.1 miles northeast of, 3 miles west of Green River, 50 feet southeast of bend in Vernal-Ouray road, in rock ledge; bronze tablet stamped "4934".....	4, 934. 051
Ouray, 11.2 miles northeast of, 15 feet north of Vernal-Ouray road, on rock set in ground; chiseled square.....	4, 930. 44
Ouray, 10.7 miles northeast of, 0.2 mile northeast of northeast corner of sec. 10, T. 7 S., R. 20 E., 30 feet north of Vernal-Ouray road, 250 feet northeast of dry wash, top of 3-foot bowlder; chiseled square, painted "4861 T. B. M.".....	4, 861. 57
T. 7 S., R. 20 E., northeast corner of sec. 10; top of corner stone.....	4, 856. 92
Ouray, 9.5 miles northeast of, 0.8 mile southwest of northeast corner of sec. 10, T. 7 S., R. 20 E., 20 feet north of Vernal-Ouray road, top of rock set in ground; chiseled square, painted on rock "U. S. 4941 T. B. M."..	4, 940. 65
Ouray, 8.8 miles northeast of, 20 feet west of Vernal-Ouray road, highest point on road, top of rock set in ground; chiseled square, painted on rock "4973 T. B. M.".....	4, 973. 40
Ouray, 8.2 miles northeast of, 15 feet northwest of Vernal-Ouray road, 180 feet north of irrigation ditch, rock set in ground; chiseled square, painted on rock "T. B. M. 4902".....	4, 902. 24
Ouray, 8.2 miles northeast of, 30 feet northwest of point where Vernal-Ouray road crosses irrigation canal; iron post stamped "4900".....	4, 899. 711
Ouray, 7.3 miles north of, 0.9 mile south of irrigation canal, 20 feet west of Vernal-Ouray road, top of rock set in ground; chiseled square, painted on rock "T. B. M. 4812 U. S.".....	4, 811. 65
Ouray, 6.6 miles north of, 1.6 miles southwest of irrigation canal, 20 feet northwest of Vernal-Ouray road, top of rock set in ground; chiseled square, painted on rock "U. S. 4784 T. B. M.".....	4, 784. 36

Ouray, 5.6 miles north of, 2.6 miles south of irrigation canal, 30 feet west of Vernal-Ouray road; iron post stamped "4773".....	Feet. 4, 772. 795
Ouray, 4.6 miles north of, 0.6 mile north of road forks to Ouray and Randlett, 20 feet west of Vernal-Ouray road, at south edge of sandy flat, top of rock set in ground; chiseled square, painted on rock "U. S. 4766 T. B. M.".....	4, 765. 81
Ouray, 4 miles north of, 75 feet south of road forks to Ouray and Shephard's place on Green River, 0.9 mile north of log cabin, top of rock set in ground; chiseled square, painted on rock "U. S. 4716 T. B. M.".....	4, 716. 06
Ouray, 3.1 miles north of, southwest corner of sec. 10, T. 8 S., R. 20 E., 320 feet northwest of crossroads, 180 feet south of log cabin; iron post stamped "4709".....	4, 709. 493
Ouray, 2.1 miles north of, 0.2 mile west of southwest corner of sec. 15, T. 8 S., R. 20 E., 75 feet north of road forks to Vernal and Shephard's place on Green River, top of rock set in ground; chiseled square, painted on rock "U. S. 4687 T. B. M.".....	4, 686. 93
Ouray, 1 mile north of, 0.2 mile south of road forks, 2 feet east of Vernal-Ouray road, in top of stump; nail, painted on stump "U. S. 4659 T. B. M.".....	4, 658. 77
Ouray, 0.5 mile north of, 130 feet west of old road to Vernal, 0.2 mile east of road to Fort Duchesne, 0.2 mile north of crossing to Fort Duchesne road, on rock ledge on hill slope; bronze tablet stamped "4663".....	4, 663. 370
Ouray, 60 feet east of ferry, north bank of Green River; water surface at 10.40 a. m., September 3, 1913.....	4, 644. 1
Ouray, 700 feet south of post office, 150 feet northeast of water gage on Green River, 12.78 feet above zero of gage, 550 feet northwest of ferry; iron post stamped "4655".....	4, 654. 731
Ouray, 700 feet south of post office, 200 feet northeast of water gage on Green River, 450 feet northwest of ferry, in 1-foot tree; nail. Water Resources bench mark "B. M. Elev. 13.23" cut in and painted on blaze.....	4, 655. 21
Ouray, 1.6 miles north of, 10 feet east of Fort Duchesne road, 2 feet west of telephone pole, on rock set in ground; chiseled square, painted on rock and pole "U. S. 4703 T. B. M.".....	4, 703. 09
Ouray, 2.5 miles north of, 20 feet west of Fort Duchesne road, 120 feet east of Duchesne River, in telephone pole; nail, painted on pole "U. S. 4663 T. B. M.".....	4, 663. 68
Ouray, 3.1 miles northwest of, 10 feet east of road to Fort Duchesne, 400 feet west of Duchesne River, on bench on 7-foot boulder; bronze tablet stamped "4699".....	4, 699. 275
Ouray, 3.9 miles north of, 10 feet east of Fort Duchesne road, in top of stake; nail, painted on stake "U. S. 4673 T. B. M.".....	4, 672. 86
Ouray, 5.1 miles north of, 30 feet west of Fort Duchesne road, 200 feet north of log house, at corner of lane leading west to Duchesne River, in corner fence post; spike, "U. S. 4688 T. B. M." painted on post.....	4, 688. 09
Ouray, 5.1 miles north of, 30 feet west of Fort Duchesne road, 200 feet north of log house, 5.5 feet north of lane leading west to Duchesne River; iron post stamped "4688".....	4, 688. 167
Ouray, 6.1 miles north of, 0.1 mile north of Indian cabin, 0.5 mile northwest of fork of upper and lower roads to Fort Duchesne, 80 feet west of lower road, in 2-foot tree partly charred; spike, "U. S. 4685 T. B. M." painted on tree.....	4, 685. 61
Ouray, 6.9 miles north of, 500 feet southwest of Indian house, 0.8 mile north of fork of upper and lower roads to Fort Duchesne, 30 feet west of lower road, in small dead tree; spike.....	4, 699. 19

	Feet.
Randlett, 5.8 miles southeast of, 60 feet south of branch of Duchesne River, 40 feet east of lower road to Ouray, in 18-inch stump; nail, "4715 T. B. M." painted on stump.....	4, 715. 61
Randlett, 5.8 miles southeast of, at point where lower road to Ouray crosses branch of Duchesne River, at south side of "The Island," 75 feet south of stream, 25 feet southwest of road; iron post stamped "4714".....	4, 714. 538
Randlett, 5.8 miles southeast of, branch of Duchesne River, at dam 300 feet above ford of lower road from Ouray; water surface, September 16, 1913.....	4, 708. 6
Randlett, 5.6 miles southeast of, on road from Ouray, 600 feet north of branch of Duchesne River, at fork of road leading down river; elevation of ground.....	4, 713. 9
Randlett, 4.5 miles south of, 0.7 mile north of ford where lower road to Ouray crosses branch of Duchesne River, 300 feet east of road, in 2-foot tree; spike, "4931 T. B. M." painted on tree.....	4, 730. 96
Randlett, 4.3 miles south of, 400 feet north of branch of Duchesne River, 1 foot east of lower road from Ouray, in 30-inch tree; spike, "4737 T. B. M." painted on tree.....	4, 736. 83
Randlett, 3.7 miles southeast of, 2 feet west of lower road from Ouray, at point where road runs beside bend in river; water surface of Duchesne River.....	4, 737. 6
Randlett, 3.2 miles southeast of, 50 feet west of lower road from Ouray, 200 feet south of dry wash, in 1-foot stump; spike, painted on stump "4750 T. B. M.".....	4, 749. 86
Randlett, 2.5 miles southeast of, 200 feet south of bridge over dry wash or irrigation canal, at top of hill, 25 feet west of road to Ouray, 300 feet northwest of fork of upper and lower roads to Ouray; iron post stamped "4777".....	4, 777. 427
Randlett, 2.5 miles southeast of, 500 feet northwest of fork of upper and lower roads to Ouray, south end of bridge over dry wash, west side of road, in 10-inch pile at end of bridge abutment; spike, "U. S. 4771 T. B. M." painted on pile.....	4, 771. 63
Randlett, 1.4 miles southeast of, 20 feet south of small bridge where road from Ouray crosses ditch, at turn in telephone line, 300 feet south of bridge over irrigation canal, in brace of corner fence post; spike, "U. S. 4808 T. B. M." painted on brace.....	4, 808. 36
Randlett, 1.4 miles southeast of, on road from Ouray, at turn in telephone line, small bridge over ditch; floor.....	4, 809. 4
Randlett, 0.6 mile east of church, on road to Ouray, culvert over ditch; floor.....	4, 817. 7
Randlett, 30 feet east of corner of T-road to post office from Fort Duchesne-Ouray road, 100 feet north of church, in telephone pole; spike, "U. S. 4820 T. B. M." painted on pole.....	4, 820. 12
Randlett, 110 feet north of bridge over Uinta River, in fence line on east side of road; iron post stamped "4799".....	4, 799. 204
Randlett, 1 mile northwest of, 0.8 mile northwest of church, 30 feet north of road to Fort Duchesne, 150 feet southeast of fence corner, on rock outcrop; chiseled square, "U. S. 4840 T. B. M." painted on rock.....	4, 839. 69
Randlett, 1.6 miles northwest of, 300 feet southeast of house, at turn where road crosses bridge over irrigation canal; floor of bridge, painted "4874".....	4, 874. 2
Randlett, 1.9 miles northwest of; floor of bridge over canal, painted "4906".....	4, 906. 2

Randlett, 1.9 miles northwest of, 60 feet north of bridge over irrigation canal, on brace of corner fence post; spike, "U. S. 4909 T. B. M." painted on brace.....	Feet. 4, 909. 64
Randlett, 2.6 miles northwest of, 30 feet north of road to Fort Duchesne, 1,000 feet northwest of house, on 3-foot bowlder; chiseled square, "U. S. 4935 T. B. M." painted on bowlder.....	4, 934. 87
Randlett, 3.2 miles northwest of, on bridge over irrigation canal; floor, painted "4923".....	4, 923. 6
Fort Duchesne, 2 miles south of, 700 feet south of bridge over irrigation canal, 20 feet east of road to Randlett, on 5-foot bowlder; bronze tablet stamped "4931".....	4, 931. 203
Fort Duchesne, 1.8 miles south of, on road to Ouray; floor of bridge over irrigation ditch.....	4, 927. 5
Fort Duchesne, 1 mile southeast of, 0.6 mile south of bridge over Uinta River, 20 feet east of road to Ouray, on rock outcrop; chiseled square, "U. S. 4961 T. B. M." painted on rock.....	4, 961. 37
Fort Duchesne, 0.6 mile southeast of, 900 feet southeast of bridge over Uinta River; floor of bridge over deep dry wash.....	4, 969. 1
Fort Duchesne, at bridge over Uinta River; water surface.....	4, 963. 7
Fort Duchesne, 100 feet north of bridge over Uinta River, 40 feet west of river; iron post stamped "4971".....	4, 971. 280
Fort Duchesne, 10.9 feet south of southeast corner of quartermaster's office, 17.5 feet west of gate, in yard, in sandstone in ground; aluminum tablet. Lower half found broken off, and remainder restamped on October 12, 1913, "4991".....	4, 990. 643

The following are preliminary unadjusted results of primary leveling on a line between Fort Duchesne and Vernal in the north part of the quadrangle. This line was broken into two parts, one leveled from Fort Duchesne and one from Vernal, meeting at a point 8 miles northeast of Taft. Orthometric and rod corrections have been applied, and the outstanding closure error from Vernal upon the line from Fort Duchesne is +0.899 foot. Both parts are based upon 1912 adjustment elevations, which are 0.7 foot greater than those published in Bulletin 489.

The leveling was done in 1913 by E. C. Burt.

From Vernal west along highway to point 8 miles northeast of Taft.

Vernal, southeast corner of Ashley Cooperative Store building, in capstone; aluminum tablet stamped "5356 Evan".....	Feet. 5, 331. 471
Vernal, southeast corner of Ashley Cooperative Store building, corner Vernal and Uinta avenues, in sill under store window; second spike west of corner.	5, 330. 82
Vernal, one-half mile due west of Ashley Cooperative Store, 130 feet east of crossroads, in telephone pole on north side of road; spike, pole painted "5358".....	5, 358. 05
Vernal, 1½ miles due west of, at southeast corner of crossroads, in east one of two stumps; spike.....	5, 431. 89
Maeser, 1 mile due east of, at northeast corner of crossroads, southwest corner of sec. 15, T. 4 S., R. 21 E., in telephone pole; spike, pole painted "5444 T. B. M.".....	5, 443. 78
Maeser, southeast corner of sec. 17, T. 4 S., R. 21 E., 20 feet west of crossroads, in 18-inch tree on north side of road to White Rock; spike.....	5, 540. 60

Maesser, 1 mile due west of, southeast corner of sec. 18, T. 4 S., R. 21 E., at northwest corner of crossroads, in telephone pole; spike, painted "5639".	Feet. 5, 638. 94
Maesser, 1 mile due west of, 300 feet west of crossroads at southeast corner of sec. 18, T. 4 S., R. 21 E.; top of bridge over irrigation canal.	5, 646. 90
T. 4 S., R. 21 E., at quarter corner on south side of sec. 18, 100 feet east of road corner; top of bridge over irrigation canal, about 2 feet above water surface, July 22, 1913.	5, 693. 7
T. 4 S., R. 21 E., south side of sec. 18, at road corner; top of quarter corner stone, painted "5697".	5, 696. 71
Maesser, 2.2 miles southwest of, 75 feet southwest of road forks, top of rock set in ground; center of painted circle.	5, 801. 72
Maesser, 2.3 miles southwest of, 750 feet south of road forks to Cottonwoods and White Rock, 300 feet east of road to White Rock, on top of rocky ledge on hillside; bronze tablet stamped "5842" (marked by rock cairn).	5, 841. 933
Maesser, 3 miles southwest of, 0.8 mile southwest of road forks, 20 feet north of road to White Rock, top of stone set in ground; center of painted circle.	5, 894. 4
T. 4 S., R. 20 E., southwest corner of sec. 24; top of section corner stone.	5, 911. 93
Maesser, 5.7 miles southwest of, 110 feet north of road to White Rock, 0.7 mile northeast of crossroad to oil wells, top of rock; cross mark.	5, 850. 046
Maesser, 5.8 miles southwest of, 0.3 mile northwest of crossroad to oil well, on east side of main road to White Rock, at bend of horseshoe curve in road leading down into canyon, in top of rocky ledge; bronze tablet stamped "5837".	5, 837. 436
Maesser, 6.2 miles southwest of, where road to White Rock crosses dry wash at bottom of canyon; point.	5, 695. 98
Maesser, 6.5 miles southwest of, south side of road at point where road passes out of west side of canyon, top of rock ledge; center of chiseled square, painted "U. S. 5746 T. B. M."	5, 746. 18
Maesser, 7.3 miles southwest of, 400 feet east of small bridge over dry wash, north side of main road to White Rock, top of small rock ledge; cross mark.	5, 618. 25
Maesser, 7.3 miles southwest of, 8 miles northeast of Taft, 1.1 miles east of second large bench east of Taft, 400 feet east of small bridge over dry wash, 2 feet north of State road, on small rock ledge; bronze tablet stamped "5618," "U. S. 5618 B. M." painted on rock.	5, 618. 25
Maesser, 7.4 miles southwest of, 7.9 miles northeast of Taft, 150 feet northwest of small bridge over dry wash, 100 feet north of State road, on rock under bush; center of chiseled circle, painted "5612".	5, 612. 43
From Fort Duchesne along highway north and east to point 8 miles northeast of Taft.	
Fort Duchesne, 10.9 feet south of southeast corner of quartermaster's office, 17.5 feet west of gate, in yard, in sandstone in ground; aluminum tablet stamped "5016 Evan".	4, 990. 643
Fort Duchesne, 1.1 miles north of, 150 feet west of road to White Rock, 150 feet south of point where telephone lines cross at right angles, in telephone pole; spike.	5, 041. 21
Fort Duchesne, 1.4 miles north of; elevation of ditch crossing road.	5, 055. 0
Fort Duchesne, 2.4 miles north of, 400 feet north of house, 100 feet west of road to White Rock, in abutment of weir on irrigation ditch; nail, "U. S. 5108 T. B. M." painted on abutment.	5, 108. 100
Fort Duchesne, 3 miles north of, 100 feet southeast of house, 75 feet north of fence corner, in 10-inch post supporting mail box; spike, "U. S. 5129 T. B. M." painted on post.	5, 129. 273

Fort Duchesne, 3 miles north of, center of NE. $\frac{1}{4}$ sec. 10, T. 2 S., R. 1 E., Uinta Special Base, 200 feet southeast of house, 50 feet south of fence corner; iron post stamped "5130".....	Feet. 5, 129. 905
Fort Duchesne, 3.6 miles northwest of, 15 feet west of road to White Rock, 100 feet south of road fork, on rock set in ground; chiseled square.....	5, 165. 83
Fort Duchesne, 4.4 miles north of, on road to White Rock, at turn in telephone line at northeast corner of road corners, 75 feet northeast of small bridge over ditch, in corner telephone pole; spike, "U. S. 5215 T. B. M." painted on pole.....	5, 214. 67
Fort Duchesne, 5.1 miles north of, on road to White Rock, at turn north- west in telephone line, in brace of corner pole; spike, "U. S. 5271 T. B. M." painted on brace.....	5, 270. 85
Fort Duchesne, 5.9 miles north of, on road to White Rock, 250 feet north of road fork, 400 feet north of bend in telephone line, in telephone pole; spike, "5318 T. B. M." painted on pole.....	5, 317. 51
Fort Duchesne, 6.8 miles northwest of, on road to White Rock, 1.2 miles south of State road to Vernal, west side of road, on hillside, in rock ledge; bronze tablet stamped "5400".....	5, 400. 388
Fort Duchesne, 8 miles northwest of, 30 feet southwest of crossing of road to White Rock and State road to Vernal, on rock set in ground; chiseled square, "5484 T. B. M." painted on rock.....	5, 484. 02
Taft, 6.1 miles due west of, 100 feet northwest of crossroads, State road and Fort Duchesne-White Rock road, 300 feet east of small bridge over branch of Uinta River; iron post stamped "5486".....	5, 486. 079
Taft, 5.9 miles west of, on State road, first bridge west of main stream of Uinta River; floor of bridge.....	5, 477. 5
Taft, 5.1 miles west of, on State road, southwest corner of bridge over main stream of Uinta River, in abutment; spike, "T. B. M. 5442" painted on bridge.....	5, 442. 26
Taft, 5.1 miles west of, main stream of Uinta River, at bridge on State road; water surface.....	5, 434. 0
Taft, 4.4 miles west of, on State road, 0.8 mile east of main stream of Uinta River, in log in foundation of bridge; spike, "5408 T. B. M." painted on bridge.....	5, 408. 48
Taft, 3.4 miles west of, on State road, 0.3 mile west of house, in log in foundation of bridge; nail, "T. B. M. 5362" painted on bridge.....	5, 362. 02
Taft, 3.1 miles west of, on State road, at gate on south side of road, 500 feet south of house, in brace to west gate post; nail, "U. S. 5363 T. B. M." painted on brace.....	5, 362. 78
Taft, 2.4 miles west of, 0.2 mile east of road fork to Fort Duchesne and Taft, 10 feet north of State road, in rock outcrop; bronze tablet stamped "5422".....	5, 421. 566
Taft, 1.3 miles west of, 25 feet west of bridge on State road over dry wash, at gate to road leading to ranch, in brace of fence post; spike driven hori- zontally, painted "U. S. 5421 T. B. M.".....	5, 420. 96
Taft, 0.7 mile west of, at bridge over Deep Creek on State road, in abut- ment, 11 feet above water surface, at 10 a. m., Oct. 19, 1913; spike, painted "U. S. T. B. M. 5438".....	5, 438. 09
Taft, northeast corner of post office, 60 feet west of irrigation canal, in stake in coping; nail, painted, "U. S. 5487 T. B. M.".....	5, 486. 904
Taft, 100 feet east of post office, 60 feet east of irrigation canal, south side of State road; iron post stamped "5489".....	5, 488. 860

Taft, 0.9 mile northeast of, 30 feet east of fence corner at road fork to Deep Creek and Vernal, 200 feet southeast of house, in brace of fence post; spike, "U. S. 5563 T. B. M." painted on fence.....	Feet. 5, 568. 19
Taft, 1.6 miles northeast of, 40 feet northeast of crossroads, Deep Creek road and State road, at foot of bench, 0.3 mile northeast of house, on rock set in ground; chiseled square.....	5, 655. 53
Taft, 2 miles northeast of, small rock pile at west end of bench.....	5, 788. 1
Taft, 2.3 miles northeast of, 40 feet northeast of road fork, on bench, on rock set in ground; chiseled square.....	5, 799. 478
Taft, 2.7 miles northeast of, 500 feet north of point where State road goes over east edge of bench, west side of road, on 4-foot boulder; bronze tablet stamped "5769".....	5, 769. 327
Taft, 3.4 miles northeast of, at point where State road crosses first ridge east of main bench at Taft, on rock; chiseled square.....	5, 708. 065
Taft, 4.1 miles northeast of, 200 feet east of top of second ridge east of main bench at Taft, 30 feet south of State road, on 2-foot boulder; chiseled square.....	5, 664. 013
Taft, 5 miles northeast of, 40 feet south of State road, on rise 0.5 mile west of second large bench east of Taft, on rock; chiseled square.....	5, 652. 263
Taft, 5.4 miles northeast of, south side of sec. 30, T. 4 S., R. 20 E., 200 feet northwest of road fork, on top of quarter corner stone; chiseled square..	5, 642. 775
Taft, 5.7 miles northeast of, on hill leading down west side of second large bench east of Taft on State road, on rock ledge south side of road; chiseled square.....	5, 704. 474
Taft, 5.7 miles northeast of, on hill leading down west side of second large bench east of Taft on State road, on south side of road, on rock ledge; bronze tablet stamped "5701".....	5, 701. 228
Taft, 5.9 miles northeast of, on west edge of second large bench east of Taft, 20 feet north of State road, on rock set in ground; chiseled square, painted "U. S. 5806 T. B. M.".....	5, 806. 05
Taft, 6.7 miles northeast of, 200 feet east of east edge of second large bench east of Taft, 6 feet north of State road, on rock on road bank; chiseled square.....	5, 672. 47
Taft, 6.9 miles northeast of, at foot of east side of second large bench east of Taft, 200 feet southwest of road fork, 300 feet west of dry wash, 2 feet east of State road, on rock; chiseled square, painted "U. S. 5570 T. B. M.".....	5, 570. 15
Taft, 7.4 miles northeast of, on rise 0.5 mile east of second large bench east of Taft, on north side of State road, on rock; chiseled square.....	5, 618. 58
Maeser, 7.4 miles southwest of, 7.9 miles northeast of Taft, 150 feet northwest of small bridge over dry wash, 100 feet north of State road, on rock under bush; chiseled circle.....	5, 611. 54

Corinne, Logan, and Randolph quadrangles.

CACHE AND RICH COUNTIES.

The elevations in the following list were determined by primary levels and accord with the 1912 adjustment.

The leveling was done in 1913 by Howard Clark.

CORINNE QUADRANGLE.

[Latitude 41° 30'-42°; longitude 112°-112° 30'.]

At Cache Junction.

Cache Junction, on foundation of water tank, in northernmost of two foundation stones parallel to tracks; copper bolt (C. & G. S. b. m. V).....	Feet. 4, 448. 849
Cache Junction, at junction of Preston branch; point of frog.....	4, 444. 4

Cache Junction, opposite north end of long curve between guy-wire pole and telegraph pole, first pole north of milepole 49; bottom of square hole in top of red sandstone post marked "U. S. B. M." (C. & G. S. b. m. W).	Feet.
C. & G. S. value for this elevation is 0.135 foot less.....	4, 441. 617
Cache Junction, in front of station; top of rail.....	4, 446. 9

LOGAN QUADRANGLE.

[Latitude 41° 30'–42°; longitude 111° 30'–112°.]

From Cache Junction to Ballard (leveled twice).

Cache Junction, 1.2 miles south of, on east side of railroad track, in top of southernmost of two wood posts used for racking steel rails; copper nail, stamped "U. S. G. S. B. M."	4, 447. 66
Cache Junction, 1.7 miles south of, on west side of highway, 60 feet west of railroad track, on large limestone rock; bronze tablet stamped "4463"	4, 462. 627
Ballard 0.6 mile north of, 300 feet north of crossing of lane leading east to house, in coping at southwest corner of wood culvert No. 28 under railroad track; copper nail stamped "U. S. G. S. B. M."	4, 439. 37
Ballard, on east side of track 100 feet south of railroad crossing, in top of tie supporting switch post; copper nail stamped "U. S. G. S. B. M."	4, 447. 42
"Ballard" top of east rail at signpost.	4, 446. 9
Ballard, at junction of "Benson-Ballard" cut-off; point of frog.	4, 447. 7

From Ballard southeast along Oregon Short Line R. R. to Hyrum, thence north to Logan, thence northwest along highway to Ballard.

Mendon, 3.8 miles north of, at Petersboro Spur, on east side of railroad track, 4 feet from ground in west side, near northwest corner of concrete warehouse; bronze tablet stamped "4474"	4, 474. 149
Petersboro Spur, at signpost; top of west rail.....	4, 471. 3
Mendon, 2.6 miles north of, in coping at southeast corner of wood culvert under railroad track; copper nail stamped "U. S. G. S. B. M."	4, 478. 72
Mendon, 2.2 miles north of, in coping at southwest corner of wood culvert under railroad track, 60 feet south of crossing; copper nail stamped "U. S. G. S. B. M."	4, 476. 90
Mendon, 0.7 mile north of, 40 feet south of crossing, in coping at southwest corner of wood culvert under railroad track; copper nail stamped "U. S. G. S. B. M."	4, 453. 32
Mendon, on east side of station near southeast corner, in northeast corner of concrete step; bronze tablet stamped "4435"	4, 434. 739
Mendon, opposite center of station; top of west rail.....	4, 434. 0
Mendon, at junction of Mendon-Logan cut-off; point of frog.....	4, 433. 4
Mendon, 1 mile south of, on west side of railroad track, opposite milepost, in base of telegraph pole; railroad spike, painted "4422"	4, 422. 12
Mendon, 2 miles south of, on west side of railroad track, in base of 2-mile telegraph pole; railroad spike, painted "4426"	4, 426. 31
Wellsville, 2.2 miles north of, 200 feet north of crossing of lane leading east to red barn, in northwest corner of concrete wall of inverted siphon under railroad track; bronze tablet stamped "4445"	4, 445. 126
Wellsville, 1 mile north of, on west side of railroad track, in base of milepost; railroad spike, painted "4488"	4, 488. 14
Wellsville, at front of railroad station, in concrete step; bronze tablet stamped "4495"	4, 495. 254
Wellsville, opposite operator's window; top of south rail.....	4, 493. 8

Wellsville, 1 mile east of, on north side of railroad track, at crossing, on southeast corner of concrete wall of inverted siphon; chisel mark, painted "4508".....	Feet. 4, 508. 93
Hyrum, 2.1 miles west of, on south side of railroad track, in base of milepost 7; railroad spike, painted "4534".....	4, 534. 22
Hyrum, 1 mile west of, at west spur, on south side of railroad track, in base of milepost; railroad spike, painted "4565".....	4, 565. 45
Hyrum, at front of railroad station, northeast corner of bottom concrete step; chisel mark, painted "4611".....	4, 611. 52
Hyrum, opposite center of station; top of south rail.....	4, 610. 3
Hyrum, 0.9 mile north of, 40 feet north of crossing, in coping at northwest corner of wood culvert under railroad; copper spike stamped "U. S. G. S. B. M.".....	4, 578. 79
Millville, 1 mile south of, 30 feet north of crossing, in coping at northwest corner of wood culvert under railroad track; copper spike stamped "U. S. G. S. B. M.".....	4, 552. 57
Millville, on south side of highway, 300 feet east of railroad crossing, in top of east side of concrete wall of irrigation ditch; bronze tablet stamped "4544".....	4, 543. 509
Millville, opposite center of station; top of east rail.....	4, 541. 9
Millville, 1.3 miles north of, on east side of railroad track, 1 mile south of sugar factory, in base of milepost; railroad spike, painted "4494".....	4, 494. 29
Logan, 2 miles south of, 50 feet south of crossing at sugar factory, in coping at northwest corner of wood culvert under railroad track; copper spike stamped "U. S. G. S. B. M.".....	4, 471. 90
"Sugar Factory" signpost; top of west rail opposite.....	4, 471. 1
Logan, 100 feet south of railroad station, on northernmost of two foundation stones on east side of water tank; chisel mark, painted "4500".....	4, 500. 78
Logan, at junction Benson-Ballard cut-off; point of frog.....	4, 481. 5
Logan, in front of station; top of rail.....	4, 497. 4
Logan, on south side of steps, at main entrance to Federal building, in top of large granite cap; bronze tablet stamped "4535".....	4, 535. 218
Logan, at main entrance of county courthouse, on south side of steps, in top of large concrete cap; bronze tablet stamped "4534".....	4, 534. 087
Logan, 1.1 miles northeast of, on north side of crossing, in northeast corner of ground tie of cattle guard; copper spike stamped "U. S. G. S. B. M."..	4, 449. 58
Benson, 1 mile east of, at railroad crossing, on west side of highway, in northwest corner of ground tie of cattle guard; copper spike stamped "U. S. G. S. B. M.".....	4, 421. 08
Benson, in front of railroad station, in ground tie supporting switch post; copper spike stamped "U. S. G. S. B. M.".....	4, 417. 17
Benson, in front of station; top of rail.....	4, 417. 9
Logan River, 0.6 mile west of Benson, under railroad bridge; surface of water Aug. 5, 1913.....	4, 400
Ballard, 1 mile east of, on north side of railroad track, in base of milepost; railroad spike.....	4, 428. 99
Ballard, on east side of track, 100 feet south of railroad crossing, in top of tie supporting switch post; copper spike stamped "U. S. G. S. B. M.".....	4, 447. 416
From Logan east 3 miles (spur leveled twice).	
Logan, 2.6 miles east of, at mouth of Logan Canyon, on west end of concrete wall of Utah State dam; chisel mark.....	4, 679. 24
Logan, 3 miles east of, at mouth of, Logan Canyon, 1,000 feet below power plant, 100 feet north of iron bridge over Logan River, in rock cliff below driveway on west side of river, about 15 feet above water level; aluminum tablet stamped "4685" (0 of gage).....	4, 685. 370

**From Logan north along Oregon Short Line R. R. to point 2.5 miles south of Franklin
(leveled twice).**

	Feet.
Logan, 1.2 miles north of, at road crossing, on west side of north-south highway and north side of east-west highway; railroad spike in base of telephone pole painted "4518"	4, 518. 69
Logan, 2.3 miles north of, at road crossing, in top of east wall of concrete culvert under north-south highway; bottom of small square hole.....	4, 504. 09
Logan, 4 miles north of, at lane leading west, on west side of north-south highway, 160 feet north of concrete culvert, 20 feet south of lane; standard bench-mark post stamped "4461"	4, 461. 033
Smithfield, 2.7 miles south of, 0.5 mile west of Hyde Park P. O., at road crossing, on southeast corner of east wall of concrete culvert under north-south highway; chisel mark, painted "4468".....	4, 468. 48
Smithfield, in northwest corner of, at main entrance of public-school building, in concrete step; bronze tablet stamped "4595"	4, 594. 54
Smithfield, 1.1 miles north of, at lane leading to house on west side of highway, 20 feet south of lane, 40 feet west of highway, in top of stump; copper spike stamped "U. S. G. S. B. M."	4, 611. 62
Smithfield, 2.6 miles north of, on east side of highway, 150 feet north of lane to west, back of telephone pole 412; standard bench-mark post stamped "4576"	4, 576. 266
Richmond, 1.8 miles south of, at lane leading east, on east side of highway, 10 feet south of culvert; chisel mark on rock, painted "4592"	4, 592. 94
Richmond, 0.7 mile south of, at road crossing, 5 feet south of east-west road, 30 feet west of north-south road; chisel mark on rock, painted "4605" ..	4, 605. 16
Richmond, at crossing of main street and State road, 20 feet west of State road and 30 feet south of main street, 6 feet south of telephone pole 535; standard bench-mark post stamped "4608"	4, 607. 956
Richmond, 1.5 miles north of, at road crossing, 40 feet north of east-west road, in east end of concrete culvert under north-south highway; chisel mark.....	4, 549. 57
Richmond, 2.2 miles north of, at Merrills station, in tie at northwest corner of platform; copper spike stamped "U. S. G. S. B. M."	4, 551. 17
"Merrills" signpost; top of west rail.....	4, 551. 6
Franklin, 3.5 miles south of, at road leading east to Cove P. O., on east side of railroad track, back of telephone pole 649; standard bench-mark post stamped "4532"	4, 531. 611
Webster, in front of station; top of rail.....	4, 505. 1
Franklin, 2.5 miles south of, at northeast corner of railroad bridge 1136, 900 feet south of Lewiston spur, in top of trestle; copper spike stamped "U. S. G. S. B. M."	4, 484. 72
Lewiston spur; point of frog.....	4, 489. 6

From Cornish south and east along highway to point 2.5 miles south of Franklin.

Cornish, 150 feet south of station through which passes State line between Utah and Idaho, in foundation of water tank, on northernmost of two foundation stones parallel to tracks; square cut (C. & G. S. b. m. Y).....	4, 524. 364
Cornish, 1.5 miles south of, 500 feet north of railroad crossing at Ransom, on southeast corner of concrete culvert under railroad; chisel mark.....	4, 481. 74
Lewiston, 4 miles west of, in west end of tie of first trestle from south end of bridge over Bear River; copper spike stamped "U. S. G. S. B. M." ..	4, 435. 30
Lewiston, 3.1 miles west of, at road crossing, in west end of wood culvert under north-south highway, 30 feet south of east-west highway; copper spike stamped "U. S. G. S. B. M."	4, 495. 05

Lewiston, 2.1 miles west of, at road crossing, in front of church, in east end of wood culvert under north-south highway, 20 feet south of east-west highway; copper spike stamped "U. S. G. S. B. M.".....	Feet. 4, 502. 87
Lewiston, 1 mile west of, at road crossing, on northwest corner of concrete culvert under north-south highway, 30 feet south of east-west highway; chisel mark.....	4, 506. 45
Lewiston, at front of Lewiston State Bank building, in top of bottom concrete step; chisel mark.....	4, 504. 55
Lewiston, 1.5 miles east of, at Cub River, in north end of tie of middle trestle of bridge over river; copper spike stamped "U. S. G. S. B. M. W. L. 4447".....	4, 458. 19
Franklin, 2.5 miles south of, at railroad bridge 1136, 900 feet south of Lewiston Spur, in top of trestle at northeast corner of bridge; copper spike stamped "U. S. G. S. B. M.".....	4, 484. 718
From Hyrum east along highway to Hardware ranch, thence northeast to center of T. 11 N., R. 4 E.	
Hyrum, at front of railroad station, on northeast corner of bottom concrete step; chisel mark.....	4, 611. 519
Hyrum, at front of public school building, in east end of top concrete step; bronze tablet stamped "4706".....	4, 705. 691
Hyrum, 4.03 miles east of, at mouth of Blacksmith Fork canyon, at Utah Power & Light Co.'s power plant, on north end of middle concrete pier of bridge over tailrace; bronze tablet stamped "4740".....	4, 739. 631
Hyrum, 5.07 miles east of, in Blacksmith Fork canyon, 1 mile above power plant, opposite tunnel in rock ledge through which pipe line passes, 5 feet south of road, on limestone rock; chisel mark.....	4, 838. 95
Hyrum, 6.81 miles east of, in Blacksmith Fork canyon, at Utah Power & Light Co.'s storage dam, on southeast corner of concrete wall; bronze tablet stamped "4996".....	4, 996. 170
Hyrum, 8.86 miles east of, in Blacksmith Fork canyon, 2 miles above Utah Power & Light Co.'s storage dam, on north side of road, at upper end of wide place in canyon, on large limestone rock; chisel mark.....	5, 049. 30
Hyrum, 9.9 miles east of, at forks of Blacksmith Fork canyon, at northeast corner of bridge over north fork of creek, on concrete wall; chisel mark..	5, 088. 35
Hyrum, 11.2 miles east of, 1.3 miles above first fork in Blacksmith Fork canyon, 600 feet west of large rock spur projecting into canyon from south side, 20 feet south of road near small box-elder tree; iron post stamped "5149".....	5, 149. 253
Hyrum, 13.3 miles east of, 3.3 miles above first fork in Blacksmith Fork canyon, at south side of road, just below rocky cliff on north side of canyon, about 0.5 mile above Dugway, on large limestone rock; chisel mark.....	5, 256. 06
Hyrum, 14.6 miles east of, 4.7 miles above first fork in Blacksmith Fork canyon, 4.1 miles west of Hardware ranch, on north side of road, 1 foot above level of roadbed, on rock ledge; chisel mark.....	5, 298. 92
Hyrum, 15.9 miles east of, in Blacksmith Fork canyon, 2.8 miles west of Hardware ranch, on camp site, 30 feet south of road; iron post stamped "5372".....	5, 372. 232
Hyrum, 17.1 miles east of, in Blacksmith Fork canyon, opposite rock ledge projecting into canyon from south side, 1.6 miles west of Hardware ranch, 6 feet north of center of road, on small rock; chisel mark.....	5, 451. 56
Hyrum, 18.7 miles east of, at Hardware ranch, 150 feet south of road by 300 feet east of barn, in rock cliff about 20 feet above level of road; bronze tablet stamped "5586".....	5, 586. 299

Hyrum, 20.1 miles east of, 1.4 miles northeast of Hardware ranch, about halfway up long hill, on west side of road, opposite mine dump, 15 feet above level of road, in top of rock ledge; chisel mark.....	Feet. 5, 833. 90
Hyrum, 21.9 miles east of, 3.2 miles northeast of Hardware ranch, 0.6 mile below point where Rock Creek and south boundary of forest reserve crosses road; iron U. S. Forest Reserve boundary post 28, stamped "5992"	5, 991. 793
Hyrum, 23.3 miles east of, 4.6 miles northeast of Hardware ranch, 0.6 mile above point where Rock Creek crosses road, on west side of road, at point where east boundary of forest reserve crosses road; iron U. S. Forest Reserve boundary post 30, stamped "6327"	6, 327. 190
Hyrum, 24.71 miles east of, 6 miles northeast of Hardware ranch, 1.6 miles north of point where Rock Creek crosses road, on west side of road; iron U. S. Forest Reserve boundary post 34, stamped "6741"	6, 741. 167
Hyrum, 25.9 miles east of, about one-fourth mile northeast of Danish Dugway, on west side of road, at place where boundary of forest reserve crosses road; iron U. S. Forest Reserve boundary post 36, stamped "6984" ..	6, 983. 897

RANDOLPH QUADRANGLE.

[Latitude 41° 30'–42°; longitude 111°–111° 30'.]

From center of sec. 14, T. 11 N., R. 4 E., northeast along highway to Laketown.

T. 11 N., R. 4 E., near center of sec. 14, at Hills ranch, on east side of road, 200 feet north of spring; iron post stamped "6979"	6, 979. 301
T. 11 N., R. 4 E., near middle of north side of sec. 1, on north side of road, just below large limestone rock projecting 10 feet out of north wall of canyon; chisel mark.....	6, 920. 05
T. 12 N., R. 5 E., near northwest corner of sec. 29, at head of Cottonwood canyon, in small flat 50 feet below wall of old dam; standard post stamped "6786"	6, 785. 810
T. 12 N., R. 5 E., near southeast corner of sec. 16, in Cottonwood canyon, on west side of road, about 400 feet below small cabin, on bowlder; chisel mark.....	6, 366. 54
T. 12 N., R. 5 E., near middle of south side of sec. 10, at road forks in front of Morris Murphy's residence; standard bench mark post stamped "6027" ..	6, 026. 844
T. 12 N., R. 5 E., near northwest corner of sec. 3, at T road east, in top of wood post 1 foot high, at base of guy of telephone pole 83, on north side of east-west road; copper spike stamped "U. S. G. S. B. M."	5, 952. 65
T. 13 N., R. 5 E., near middle of east side of sec. 35, 1.5 miles west of Laketown, on south side of road, 4 feet above road bed, 200 feet west of small frame building, on corner of rock ledge; chisel mark.....	5, 956. 18
Laketown, in northeast corner of Irwins brick store, 4 feet above ground; aluminum tablet stamped "5988 B 1909"	5, 990. 679

APPENDIX A.

ELEVATIONS ADJUSTED BY THE UNITED STATES COAST AND GEODETIC SURVEY FROM PRECISE LEVELING.

Coalville, Corinne, Deseret, Fort Douglas, Granite Peak, Grouse Creek, Kelton, Logan, Lucin, Lund, Mammoth, Mercur, Modena, Ogden, Panaca, Promontory Point, Saleratus Pass, Saltair, and Snowville quadrangles.

BEAVER, BOXELDER, CACHE, DAVIS, IRON, JUAB, MILLARD, MORGAN, SALT LAKE, UTAH, AND WEBER COUNTIES.

The following descriptions and elevations are taken from reports and manuscript of the Coast and Geodetic Survey and are published by permission of the superintendent of that bureau. The bench marks were established from precise leveling by the Coast and Geodetic Survey and were included in the 1912 adjustment by that survey and are likely to be changed only slightly by any future adjustment.

COALVILLE QUADRANGLE.

[Latitude 40° 30'–41°; longitude 111°–111° 30'.]

At Echo.

Echo, south of track, directly opposite water tank, in field halfway between easterly section house and white cottage of station agent, 3 feet from fence, in top of stone post; bottom of hole (U. S. C. & G. S. b. m. J.)....	Feet. 5, 462. 397
Echo, at east side of wagon road at south end of main street, just under a high hill; iron post marked with a cross (established by U. S. G. S.) (Geol. Echo)	5, 467. 145

CORINNE QUADRANGLE.

[Latitude 41° 30'–42°; longitude 112°–112° 30'.]

From Brigham north along Oregon Short Line Railroad to Bear River.

Brigham, 50 feet south of second road crossing north of station, in field west of tracks, inside and 2 feet from fence, very nearly halfway between mile poles 21 and 22, 5 or 6 feet above level of tracks, in top of stone post; bottom of hole (C. & G. S. b. m. R.)	4, 295. 103
Honeyville, 450 feet south of south cattle guard, 30 feet north of south switch, in right of way of railroad, east of tracks, 7 feet from fence, in top of stone post; bottom of hole (C. & G. S. b. m. S.)	4, 260. 592
Dewey (post office, Deweyville), 600 feet south of station, in right of way of railroad, east of tracks, 50 feet from main tracks, in top of stone post; bottom of hole (C. & G. S. b. m. T.)	4, 322. 665
Bear River, near entrance to Bear River Canyon, behind second telegraph pole north of station sign, 75 feet west of main tracks, in top of stone post; bottom of hole (C. & G. S. b. m. U.)	4, 496. 343

From Brigham west along Southern Pacific Ry. to Surbon.

Brigham, about 100 meters south of Oregon Short Line R. R. station, in top surface of northwest stone pillar of railroad water tank; red metal disk (C. & G. S. b. m. J ₉).....	Feet. 4, 309.043
Honeyville, in west face of concrete foundation of Oregon Short Line R. R. station, directly beneath telegraph operator's window, just behind semaphore tower, about 0.2 meter above platform; red metal disk (C. & G. S. b. m. L ₉).....	4, 268.469
Dewey, 180 meters south of station, on right of way of Oregon Short Line R. R., 15 meters east of main tracks, in top of stone post; bottom of hole (C. & G. S. b. m. T) ₁	4, 322.665
Corinne, about 4 telegraph poles west of milepole 3, on right of way of Brigham-Corinne cut-off, 14.0 meters south of tracks, 1.2 meters north of south line fence, about 1.5 meters below track, in top of stone post; bottom of hole (C. & G. S. b. m. M ₉).....	4, 224.227
Corinne, directly south of middle of freight station, 42.4 meters west of west end of old passenger station, 18.7 meters south of Southern Pacific Ry. main track, 0.5 meter north of south line fence and about 0.6 meter below track, in top of stone post; bottom of hole (C. & G. S. b. m. N ₉)..	4, 229.049
Corinne, near, between tenth telegraph pole east of Southern Pacific Ry. milepole 806 and south line fence, 150 meters east of small bridge that crosses the irrigation ditch at point where the right of way narrows, 14.3 meters south of Southern Pacific Ry. tracks; 3-inch red-metal cap (C. & G. S. b. m. O ₉).....	4, 233.656
Corinne and Balfour, between, about 1½ telegraph poles east of milepole 804, 50 meters east of whistle post at road crossing, on Southern Pacific Ry. right of way, 0.5 meter north of south line fence and 14.8 meters south of track; 3-inch red-metal cap (C. & G. S. b. m. P ₉).....	4, 243.922
Balfour, about 7 telegraph poles west of milepole 801, 98 meters east of westernmost of two switch stands, at west end of siding, on right of way of Southern Pacific Ry., 0.5 meter north of south line fence, 14.8 meters south of main track and about one meter above it; 3-inch red-metal cap (C. & G. S. b. m. Q ₉).....	4, 246.294
Hansen, near, about 2 telegraph poles east of milepole 798, on right of way of Southern Pacific Ry., 0.9 meter south of north line fence, 14.3 meters north of track and about 1.2 meters above it, in top of stone post; bottom of hole (C. & G. S. b. m. R ₉).....	4, 231.694
Hansen, situated about midway between the ends of siding, one-half telegraph pole west of pole that carries station sign (795.7 miles), in line of telegraph poles, 13.0 meters south of Southern Pacific Ry. main track, in top of stone post; bottom of hole (C. & G. S. b. m. S ₉).....	4, 234.949
Hansen, near, about 2 telegraph poles west of milepole 793, on right of way of Southern Pacific Ry., 8.9 meters north of south line fence, 5.8 meters south of railroad track; 3-inch red-metal cap (C. & G. S. b. m. T ₉).....	4, 250.635
Blue Creek, situated on right of way of Southern Pacific Ry., opposite water tank, 14.8 meters west of west end of pumping station, 10 meters north of south line fence, 12.2 meters south of southernmost siding, 24.5 meters south of main track, in top of stone post; bottom of hole (C. & G. S. b. m. U ₉).....	4, 269.831
Blue Creek, and Kolmar, about 4 telegraph poles east of milepole 790, on Southern Pacific Ry. right of way, 0.8 meter north of south line fence, 14.4 meters south of railroad track; 3-inch red-metal cap (C. & G. S. b. m. V ₉).....	4, 343.800

Kolmar, about 0.2 telegraph pole south of pole that carries station sign (789.1 miles) on right of way of Southern Pacific Ry., 6.7 meters east of west line fence, 32.2 meters west of main track, in top of stone post; bottom of hole (C. & G. S. b. m. W ₉).....	Feet. 4, 375. 286
Surbon, about 2 telegraph poles north of pole that carries station sign (786.1 miles), 6.2 meters west of east line fence, on right of way, 4.0 meters east of main track, in top of stone post; bottom of hole (C. & G. S. b. m. X ₉).....	4, 565. 808

DESERT QUADRANGLE.

[Latitude 39°-39° 30'; longitude 112° 30'-113°.]

From Lynn Junction south along San Pedro, Los Angeles & Salt Lake R. R. to Borden.

Lynn Junction, 3½ miles west of, opposite milepole 660, 27.72 meters north of center of railroad track, at grade; 3-inch red-metal cap (C. & G. S. b. m. B ₉).....	4, 785. 017
Cline, 2 miles west of, opposite milepole 656, 26.82 meters north of center of track, 0.5 meter below grade; 3-inch red-metal cap (C. & G. S. b. m. C ₉)..	4, 766. 407
Cline, 4 miles west of, 4½ poles east of milepole 654, 16.82 meters north of center of railroad track, 28.1 meters from fourth pole and 21.0 meters from fifth pole east of milepole; 3-inch red-metal cap (C. & G. S. b. m. D ₉)....	4, 756. 801
Akin, 4 miles east of, one-half mile west of bridge over Sevier River, 4 poles west of milepole 651, 11.52 meters south of center of track, 9.0 meters from edge of bluff overlooking old river channel; 3-inch red-metal cap (C. & G. S. b. m. E ₉).....	4, 656. 330
Akin, opposite station sign, 4½ poles north of milepole 645, 26.82 meters east of center of railroad track, at grade; 3-inch red-metal cap (C. & G. S. b. m. F ₉).....	4, 639. 456
Oasis, 2 miles east of, opposite milepole 644, 19.03 meters south of center of railroad track, 1 meter below grade; 3-inch red-metal cap (C. & G. S. b. m. G ₉).....	4, 606. 966
Oasis, 4 poles south of milepole 642, at southeast corner of Hotel Day, 25 centimeters from corner of building, 29.30 meters southeast of southeast corner of station platform, 37.22 meters east of center of track, in ground with 10 inches exposed; iron pipe bearing bronze cap, stamped "U. S. Boundary Post No. —" (U. S. G. S. 4592).....	4, 593. 734
Oasis, 6 poles south of milepole 642, 10 centimeters from each face of southwest corner of southwest foundation of windmill tower over railroad pumping station, 4.57 meters east of center of track; red metal disk (C. & G. S. b. m. H ₉).....	4, 596. 569
Oasis, 2 miles south of, 13.6 meters north of milepole 640, 12.42 meters west of center of railroad track, 1 meter below grade; 3-inch red-metal cap (C. & G. S. b. m. I ₉).....	4, 577. 826
Van, opposite milepole 637, 27.02 meters west of center of track, 1 meter below subgrade; 3-inch red-metal cap (C. & G. S. b. m. J ₉).....	4, 571. 411
Jerome, 32.0 meters northwest of station sign, opposite milepole 633, 24.70 meters west of center of track, on slight rise of ground, 1 meter above grade; 3-inch red-metal cap (C. & G. S. b. m. K ₉).....	4, 567. 720
Clear Lake, near fifteenth pole south of milepole 629, opposite north end of passenger station, 29.50 meters west of center of track, 2 meters below grade; 3-inch red-metal cap (C. & G. S. b. m. L ₉).....	4, 579. 125
Neels, 2½ miles south of, opposite milepole 621, 24.50 meters west of center of track, at grade; 3-inch red-metal cap (C. & G. S. b. m. M ₉).....	4, 654. 502

Borden, $1\frac{1}{2}$ miles south of, opposite milepole 617, 33.50 meters east of center of track, 8.7 meters east of wagon trail, at grade; 3-inch red-metal cap (C. & G. S. b. m. N ₁).....	Feet. 4,759.288
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FORT DOUGLAS QUADRANGLE.

[Latitude 40° 30'–41°; longitude 111° 30'–112°.]

From Farmington south along Oregon Short Line R. R. to Salt Lake City.

Farmington, $1\frac{1}{2}$ miles northwest of, opposite second telegraph pole west of milepole 20, 16 meters south of railroad track, 1 meter south of right of way, 2 meters east of and in line with pole 1003 of Utah Light & Power Co.; 3-inch red-metal cap (C. & G. S. b. m. K ₁).....	4,250.470
Farmington, about $\frac{1}{2}$ mile northwest of, opposite third telegraph pole southwest of milepole 21, in cement-covered stone coping of red sand-stone culvert, 2.5 meters south of track, 0.25 meter below base of rail; bottom of hole in horizontal surface (C. & G. S. b. m. L ₁).....	4,248.774
Farmington, 28 meters northeast of station, at southeast side of street passing through the town, 34 meters east of track, 2 meters east of right of way, in top of stone post; bottom of hole (C. & G. S. b. m. M ₁).....	4,260.605
Farmington, about 1.9 miles southeast of, at southeast corner of a road crossing, 14 meters southwest of railroad track, $\frac{3}{4}$ meter southwest of right of way, about 2 meters southeast of and in line with pole 1186 of Utah Light & Power Co.; 3-inch red-metal cap (reported slightly disturbed in 1907) (C. & G. S. b. m. N ₁).....	4,221.983
Centerville, about 31 meters southeast of station, 17 meters east of track, 2.5 meters east of right of way, about 3 meters west of wagon scales, in top of stone post; bottom of hole (C. & G. S. b. m. O ₁).....	4,245.608
Woods Cross, 20 meters southeast of station, 8 meters east of track, 11 meters west of Deseret Live Stock Co.'s store; 3-inch red-metal cap (C. & G. S. b. m. P ₁).....	4,292.751
Simkins, 28 meters southwest of signboard, at northeast corner of road crossing, 15 meters east of track, $\frac{3}{4}$ meter east of right of way, in top of stone post; bottom of hole (C. & G. S. b. m. Q ₁).....	4,280.493
Stock Yards Junction, 19 meters south of signboard, at southeast corner of road crossing, 8 meters east of track and 0.5 meter east of right of way; 3-inch red-metal cap (C. & G. S. b. m. R ₁).....	4,260.110
Salt Lake City, $2\frac{1}{2}$ miles north of, in northwest corner of Bonneville school grounds, 54 meters west of northwest corner of building, 13 meters southeast of second telegraph pole southeast of milepole 34, 28 meters northeast of main track, 0.5 meter northeast of right of way, in top of stone post; bottom of hole (C. & G. S. b. m. S ₁).....	4,224.490
Salt Lake City, on southeast corner of South Temple and Third West streets, 4 meters west of saloon entrance in Railroad Exchange Hotel, 65 meters southeast of southeast corner of railroad passenger depot, 1.5 meters east of curb on Third West Street and 5.5 meters south of curb on South Temple Street; 3-inch red-metal cap (C. & G. S. b. m. T ₁).....	4,260.136
Salt Lake City, at southeast corner of South Temple and Main streets, in northeast corner of stone foundation course of building occupied by State Bank of Utah, 0.5 meter south from corner, 1.05 meters above walk; red-metal disk (C. & G. S. b. m. U ₁).....	4,330.693
Salt Lake City, near southeast corner of State and Fourth South streets, near northwest corner of grounds of City and County Building, about 80 meters northwest of northwest corner of building, 18 meters east of walk on State Street, 16 meters south of walk on Fourth South Street; a bronze disk stamped "Meridian Mark" and having a + in center (C. & G. S. b. m. V ₁) (U. S. G. S. meridian mark).....	4,259.539

Salt Lake City, at northeast corner of Third West and Fourth South streets, southwest corner of Pioneer Park, on southeast side of diagonal drive through the park, 2 meters north of wire fence and hedge on Fourth South Street, 6 meters east of wire fence on Third West Street, in top of stone post; bottom of hole (C. & G. S. b. m. W₁)..... Feet. 4, 232. 678

From Salt Lake City west to Buena Vista.

Salt Lake City, at corner of Seventh Street West and Ninth Street South, near intersection of Denver & Rio Grande R. R. track and San Pedro, Los Angeles & Salt Lake R. R. passenger track, in west end of north abutment of Denver & Rio Grande R. R. bridge over Ninth Street Canal, 22.2 meters north of center of San Pedro track, 2.75 meters west of center line of Denver & Rio Grande R. R. west track, 20 centimeters from face of abutment, in horizontal surface of concrete abutment, in lead; one-half inch copper bolt, concrete marked "U. S." (C. & G. S. b. m. X₁).. 4, 227. 357

Salt Lake City, at corner of Eleventh Street East and Twelfth Street South, 100 feet northeast of street crossing, 2 feet north of sidewalk; iron post stamped "4352 SLak"; 3-inch cap (4352 SLak)..... 4, 354. 601

NOTE.—Since this bench mark was established, a laundry building, known as the Granite Laundry, has been built over it, and the pipe is under the floor of the laundry office, in the southwest corner of the building. To make connection with the point it was necessary, in 1906, to have a hole cut in the floor of the office, insert the rod in the hole, and read from the outside through the large plate-glass window.

Salt Lake City, a bench mark of the U. S. Geological Survey described thus: Salt Lake City, meridian mark at the southwest corner of the grounds of the City and County Building, corner of State and Fifth streets South; bronze tablet cemented in stone post, stamped "4251 SLak"..... 4, 252. 905

Salt Lake City, at Seventh Street West and Ninth Street South, at intersection of Denver & Rio Grande R. R. and San Pedro, Los Angeles & Salt Lake R. R. tracks, on concrete block supporting northwest corner of platform on east side of semaphore tower, 0.65 meter from northeast corner of tower, 3.20 meters from south rail of Oregon Short Line Ry. track, 2.42 meters from west rail of Denver & Rio Grande R. R. track; top of corner of block (edge of platform above bench is marked with crayon "O. S. L. B. M. 4222.57") (O. S. L. Ry. 4222.57)..... 4, 227. 827

Buena Vista, one-fourth mile east of, near intersection of freight and passenger tracks of San Pedro, Los Angeles & Salt Lake R. R., about 40 meters north of the former and 47.3 feet south of the center of the latter, on east side of stone monument 18 inches square at base and about 3 feet high, bearing a bronze plate on east face marked "S. L. C. C. Limits," on east side of monument close to ground; a cross on face of copper bolt set vertically in cement (this mark is evidently a city or county bench mark (C. & G. S. b. m. Y₁)..... 4, 229. 276

Buena Vista, one mile west of, about 10 poles east of milepole 775, on east end of north abutment of culvert 775 A, 17.65 feet north of center line of San Pedro, Los Angeles & Salt Lake R. R. track, 10 inches from north face of wall, 3½ inches from edge of wing wall, in horizontal surface of concrete abutment; ½-inch copper bolt (C. & G. S. b. m. Z₁)..... 4, 225. 051

Buena Vista, about 3½ miles west of, at sixth pole west of milepole 773, 14.2 meters north of center of track of San Pedro, Los Angeles & Salt Lake R. R. and 3 feet inside of right of way; 3-inch red-metal cap (C. & G. S. b. m. A₂)..... 4, 228. 961

GRANITE PEAK QUADRANGLE.

[Latitude 38° 30'–39°; longitude 112° 30'–113°.]

From Goss station south along San Pedro, Los Angeles & Salt Lake R. R. to Zenda.

	Feet.
Goss station, 2 miles north of, 6 poles north of milepole 614, in concrete intake to section-house cistern, 17 centimeters east of center of intake pipe, 2.72 meters east of center of track; $\frac{3}{4}$ -inch copper bolt (C. & G. S. b. m. O ₄)	4, 809. 853
Goss, $6\frac{1}{2}$ poles south of milepole 612, in west end of north abutment of culvert 611 B, 24 centimeters from head wall, 38 centimeters from angle with wing wall, near pumping station, 3.50 meters west of center of track; $\frac{3}{4}$ -inch copper bolt (C. & G. S. b. m. P ₄).....	4, 762. 406
Goss, 2 miles south of, opposite milepole 610, 30.80 meters west of center of tracks, 1 meter below grade; 3-inch red-metal cap (C. & G. S. b. m. Q ₄).....	4, 801. 654
Cruz, opposite milepole 607, $4\frac{1}{2}$ poles south of station sign, 33.52 meters west of center of track, slightly below grade; 3-inch red-metal cap (C. & G. S. b. m. R ₄).....	4, 873. 031
Cruz, 1 mile south of, 2 poles south of milepole 606, in horizontal surface of limestone coping of northeast wing wall of culvert 605 B, 24 centimeters from inner face of wing wall, 55 centimeters from end, 5.87 meters east of center of track; bottom of hole in horizontal surface (C. & G. S. b. m. S ₄).....	4, 844. 649
Pumice, 1 mile east of, opposite milepole 603, 25.62 meters north of center of track, at grade; 3-inch red-metal cap (C. & G. S. b. m. T ₄).....	4, 833. 416
Pumice, 4 poles east of milepole 602, in wall facing track of western concrete section house, 1.35 meters from southeast corner of house, 1.40 meters from ground, 21.90 meters north of track; red-metal disk (C. & G. S. b. m. U ₄).....	4, 858. 481
Pumice, one-half mile west of, 8 poles west of milepole 602, 17 centimeters from face and 81 centimeters from end of northwest wing wall, in limestone coping of culvert 601 C, 5.08 meters north of center of track, in horizontal surface; bottom of hole (C. & G. S. b. m. V ₄)	4, 850. 883
Black Rock, $1\frac{1}{2}$ poles south of milepole 597, in east end of north abutment of culvert 596 A, 24 centimeters from face of head wall and 34 centimeters from angle with wing wall, 5.75 meters east of center of track; red-metal disk (C. & G. S. b. m. W ₄).....	4, 852. 901
Black Rock, 2 poles south of milepole 597, in southwest corner of main pedestal of concrete base of railroad water tank, 9 centimeters from each face of pedestal, 5.85 meters east of center of track; bottom of hole in horizontal surface (C. & G. S. b. m. X ₄).....	4, 853. 615
Malone, opposite station sign, $5\frac{1}{2}$ poles north of milepole 592, 22 meters east of center of track, 1.5 meters below grade; top of rail (C. & G. S. b. m. Z ₄)	4, 889. 685
Read, 3 miles north of, opposite milepole 590, 24.10 meters west of center of track of San Pedro, Los Angeles & Salt Lake R. R., 2 meters below grade; top of rail (C. & G. S. b. m. A ₅).....	4, 871. 749
Read, 6 poles north of milepole 587 B 5, in concrete inlet to section-house cistern, 18 centimeters west of center of drainpipe, 2.50 meters west of center of track; $\frac{3}{4}$ -inch copper bolt (C. & G. S. b. m. B ₅).....	4, 884. 410
Read, opposite milepole 587, 19.12 meters east of center of track, 1 meter below grade; bottom of hole in top of stone post (C. & G. S. b. m. C ₅)..	4, 883. 763
Read, 2 miles south of, opposite milepole 585, 23.30 meters east of center of track, 0.5 meter below grade; bottom of hole in top of stone post (C. & G. S. b. m. D ₅).....	4, 905. 834

Zenda, opposite station sign, $9\frac{1}{2}$ poles south of milepole 583, 26.10 meters east of center of track, 0.5 meter below grade, in top of stone post; bottom of hole (C. & G. S. b. m. E ₂).....	Feet. 4, 940. 882
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GROUSE CREEK QUADRANGLE.

[Latitude 41° 30'-42°; longitude 113° 30'-114°.]

Near Terrace.

Terrace, 1.3 meters north of milepole 712, on railroad right of way, 13.7 meters south of track and about 1.2 meters above it; 3-inch red-metal cap (C. & G. S. b. m. Q ₁₀).....	4, 689. 456
Terrace, in northeast corner of brick structure of machine shop, about 1.5 meters above ground; red-metal disk (C. & G. S. b. m. R ₁₀).....	4, 552. 891
Terrace, 1 meter north of milepole 705, on railroad right of way, 14.7 meters south of track; 3-inch red-metal cap (C. & G. S. b. m. S ₁₀).....	4, 452. 980

KELTON QUADRANGLE.

Latitude 41° 30'-42°; longitude 113°-113° 30'.]

From Monument southwest along Southern Pacific Ry. to Romola.

Monument, near, on railroad right of way, 1.1 meters south of milepole 752, 19.5 meters south of track and about 1.5 meters below it; 3-inch red-metal cap (C. & G. S. b. m. H ₁₀).....	4, 240. 405
Monument, 1.2 meters north of milepole 748, on railroad right of way, 14.3 meters south of track and about 1 meter below it, in top of stone post; bottom of hole (C. & G. S. b. m. I ₁₀).....	4, 222. 662
Kelton, 1 meter north of seventh telegraph pole west of milepole 744, on railroad right of way, 14.5 meters south of track and about 1 meter above it; 3-inch red-metal cap (C. & G. S. b. m. J ₁₀).....	4, 219. 414
Kelton, 36 meters east of east end of freight station, 29.6 meters north of main track; red-metal disk (C. & G. S. b. m. K ₁₀).....	4, 221. 612
Kelton, on railroad right of way, opposite milepole 736, 22.8 meters west of track, 1 meter east of telegraph pole, in top of stone post; bottom of hole (C. & G. S. b. m. L ₁₀).....	4, 351. 159
Poplin, in vertical side of deep cut 2 telegraph poles east of milepole 733, 25 meters west of east end of cut, 1.5 meters above track and 2 meters south of it; red-metal disk (C. & G. S. b. m. M ₁₀).....	4, 541. 142
Ombeys, 1 meter northwest of milepole 730, 14.8 meters southeast of main track, 30 meters northeast of switch stand at northeast end of Y, 48.4 meters northeast of semaphore; 3-inch red-metal cap (C. & G. S. b. m. N ₁₀).....	4, 713. 311
Romola, near, about one-half mile west of station sign, 6 telegraph poles east of milepole 724, 16.1 meters south of track, 1 meter north of telegraph post, 40 meters east of whistle post; 3-inch red-metal cap (C. & G. S. b. m. O ₁₀).....	4, 606. 703
Romola, near, on railroad right of way, south of track, about 1 meter north of milepole 719; 3-inch red-metal cap (C. & G. S. b. m. P ₁₀).....	4, 594. 400

LOGAN QUADRANGLE.

[Latitude 41° 30'-42°; longitude 111° 30'-112°.]

Near Cache Junction.

Cache Junction, on foundation of water tank, in northernmost of two foundation stones parallel to tracks; copper bolt (C. & G. S. b. m. V).....	4, 448. 849
Cache Junction, opposite north end of long curve, between guy-wire pole and telegraph pole, the first pole north of milepole 49, in top of stone post; bottom of hole (C. & G. S. b. m. W).....	4, 441. 484

Ransom, 300 feet south of north switch of siding, 8 feet back of second telegraph pole south of milepole 57, 35 paces west of main tracks; in top of stone post; bottom of hole (C. & G. S. b. m. X). Destroyed.....	Feet. 4, 459. 709
Cornish, about 150 feet south of depot, through which passes the Utah-Idaho State line, in foundation of water tank, in northernmost of two foundation stones parallel to tracks; square cut (C. & G. S. b. m. Y)...	4, 524. 364

LUCIN QUADRANGLE.

[Latitude 41°-41° 30'; longitude 113° 30'-114°.]

From Bovine southwest along Southern Pacific Ry. to Gartney.

Bovine, on railroad right of way, about 1.4 telegraph poles east of milepole 699 and on opposite side of track, 36.8 meters west along track of section car house, 14.1 meters north of main track; 3-inch red-metal cap (C. & G. S. b. m. T ₁₀).....	4, 349. 394
Bovine, near, on railroad right of way, 1.2 meters north of milepole 695, 14.6 meters south of track; 3-inch red-metal cap (C. & G. S. b. m. U ₁₀)..	4, 396. 192
Umbria Junction, near, 0.9 meter north of milepole 690, 14.5 meters south of railroad track; 3-inch red-metal cap (C. & G. S. b. m. V ₁₀).....	4, 429. 722
Lucin, in top of southernmost one of two westernmost stone pillars under water tank; red metal disk (C. & G. S. b. m. W ₁₀).....	4, 471. 376
Umbria junction, about one-half mile east of, between old terrace line of Southern Pacific Ry. and Lucin cut-off, 1.4 meters east of old-line telegraph pole that stands about 75 meters northeast of crossing whistle post at crossing on main line, 53.2 meters north of eastbound main track, about 45.0 meters north of westbound main track, 20.6 meters south of old terrace line, in top of stone post; bottom of hole (C. & G. S. b. m. X ₁₀)....	4, 495. 116
Umbria Junction, 0.6 meter north of sixth telegraph pole east of milepole 679, about one-fourth mile west of junction, at west end of cut that runs west from junction point, 15.7 meters north of eastbound track of railway, about 0.6 meter above it; in top of stone post; bottom of hole (C. & G. S. b. m. Y ₁₀)	4, 521. 986
Umbria Junction, 0.9 meter north of milepole 677; 14.3 meters north of eastbound track; 3-inch red-metal cap (C. & G. S. b. m. Z ₁₀).....	4, 551. 658
Gartney, directly opposite station sign, 59.7 meters south of eastbound track of the railroad, 0.9 meter north of south line fence, in top of stone post; bottom of hole (C. & G. S. b. m. A ₁₁).....	4, 611. 375

LUND QUADRANGLE.

[Latitude 38°-38° 30'; longitude 113°-113° 30'.]

From Ford northeast along San Pedro, Los Angeles & Salt Lake R. R. to Zenda.

Ford, directly opposite signboard, 34 meters southeast of center line of main track, 1.4 meters below the top of the rail; 3-inch red-metal cap (C. & G. S. b. m. P ₈).....	5, 148. 612
Lund, 6.6 meters southeast of center line of main track, on steel base of middle one of the westerly water-tank columns; surface within an outlined square (C. & G. S. b. m. Q ₈).....	5, 084. 294
Lund, 20 meters southeast of center line of main track, set vertically in west concrete pier of windmill tower opposite water tank, 0.2 meter below top of rail; red-metal disk (C. & G. S. b. m. R ₈).....	5, 083. 205
Lund, 62 meters northwest of center line of main track, directly opposite operator's office in railroad station, in line with two white posts lettered "R. R. property," 0.8 meter below top of rail, in top of stone post; bottom of hole (C. & G. S. b. m. S ₈).....	5, 080. 935

Lund, 29 meters northwest of center line of main track, 74 meters northeast of operator's office in railroad station, in southwest angle of large Y, 0.7 meter below top of rail; 3½-inch cap (U. S. G. S. b. m. 5092 R Lund)...	Feet. 5,081.473
Kerr, directly opposite signboard, 148.5 meters southeast of center line of main track, 1 meter below top of rail; 3-inch red-metal cap (C. & G. S. b. m. T₂).....	5,083.293
Latimer, opposite signboard, 30 meters northwest of center line of main track, in line of telegraph poles, 1.2 meters below top of rail, in top of stone post; bottom of hole (C. & G. S. b. m. U₃).....	5,074.117
Nada, 0.9 mile southwest of, 5.5 meters northwest of center line of main track, set vertically in the northwest wall of concrete culvert 551 A, 1.3 meters below top of rail; copper bolt (C. & G. S. b. m. V₃).....	5,066.391
Nada, directly opposite signboard, 22 meters southeast of center line of main track, on side of concrete section house facing tracks, 1.5 meters above ground; red-metal disk (C. & G. S. b. m. W₃).....	5,073.343
Thermo, 2.7 miles southwest of, 5.5 meters southeast of center line of main track, set vertically in southeast wall of concrete culvert 556b, 1.7 meters below top of rail; copper bolt (C. & G. S. b. m. X₃).....	5,042.188
Thermo, directly opposite signboard and section house, 41 meters southeast of center line of main track, 1.7 meters below top of rail, in top of stone post; bottom of hole (C. & G. S. b. m. Y₃).....	5,030.718
Thermo, 6.5 meters northwest of center line of main track, on middle one of three southwesterly water-tank columns, at northeast end of Thermo siding; surface within an outlined square (C. & G. S. b. m. Z₃).....	5,039.193
Thermo, 25 meters southeast of center line of main track of railroad, set vertically in east concrete pier of windmill tower, directly opposite water tank at northeast end of Thermo siding, 1.4 meters below top of rail; red-metal disk (C. & G. S. b. m. A₃).....	5,034.819
Laho, directly opposite signboard, 44.2 meters southeast of center line of main track, 1.4 meters below top of rail; 3-inch red-metal cap (C. & G. S. b. m. B₃).....	5,008.021
Upton, 30 meters northwest of center line of main track, 50 meters northeast (measured along track) of signboard "Upton," in line with telegraph poles, 1.2 meters below top of rail; 3-inch red-metal cap (C. & G. S. b. m. C₃).....	4,981.270
Milford, 2.7 miles southwest of, 30 meters northwest of center line of main track, 0.7 mile southwest of Majestic Smelter, 0.4 mile southwest of mile-pole 572, set near private-road crossing of Martin ranch, 1 meter below top of rail; 3-inch red-metal cap (C. & G. S. b. m. D₃).....	4,970.052
Milford, 0.3 mile southwest of railroad station, 51.5 meters northwest of center line of main track, on wall of most southerly concrete section house, 1.6 meters above ground; red-metal disk (C. & G. S. b. m. E₃).....	4,965.886
Milford, 0.3 mile southwest of railroad station, 43.6 meters southeast of center line of main track, set vertically in northerly one of concrete bases supporting coal-chute trestles, 0.6 meter above top of rail; red-metal disk (C. & G. S. b. m. F₃).....	4,963.268
Milford, 113 meters southeast of center line of main track, 145 meters southwest (measured along tracks) of operator's office in railroad station, 24 meters northeast of center of highway from Milford to Minersville, 0.6 meter below top of rail, in top of stone post; bottom of hole (C. & G. S. b. m. G₃).....	4,958.133
Milford, 117 meters northeast of operator's office in railroad station, 8.0 meters northwest of center line of main track, 0.5 meter below top of rail; 3-inch cap (U. S. G. S. b. m. 5084 FRR.).....	4,956.631

Opal, directly opposite signboard and section pole, 20 meters west of main track, set 0.2 meter above top of rail; 3-inch red-metal cap (C. & G. S. b. m. H ₉).....	Feet. 4, 969. 908
Zenda, near, 25 meters east of center line of main track, opposite milepole 581; 3-inch red-metal cap (C. & G. S. b. m. I ₉).....	4, 957. 625

MAMMOTH QUADRANGLE.

[Latitude 39° 30'–40°; longitude 112°–112° 30'.]

From Boulder south along San Pedro, Los Angeles & Salt Lake R. R. to Lynn Junction.

Boulter, 1 mile north of, 1½ telegraph poles north of milepole 703, opposite sign "One mile to Boulter," 10.55 meters east of center of track, 1 meter below grade; bottom of hole in horizontal surface (C. & G. S. b. m. H ₃)..	5, 975. 690
Boulter, 4.57 meters from first pole south of milepole 702, 15.47 meters west of center of track; 3-inch red-metal cap (C. & G. S. b. m. I ₃).....	6, 023. 308
Boulter, 2 miles south of, 4 poles north of milepole 700, in west end of north abutment of culvert 700 A, 17 centimeters from face of head wall, 19 centimeters from angle with wing wall; red-metal disk (C. & G. S. b. m. J ₃).....	6, 020. 368
Tintic, 2 miles north of, 7 poles north of milepole 698, on west end of north abutment of culvert 698 A, 15 centimeters from face of head wall, 27 centimeters from angle with wing wall, 4.55 meters west of center of track; ¾-inch copper bolt (C. & G. S. b. m. K ₃).....	5, 942. 649
Tintic, 4 poles north of milepole 696, 42.6 meters east of center of main track, 31.8 meters northeast of northeast corner of passenger station, 13.6 meters northeast of telegraph pole, 3 meters east of edge of roadway; ¾-inch copper bolt (C. & G. S. b. m. L ₃).....	5, 858. 912
Tintic, 1½ miles east of, on railroad spur to Eureka, 13.50 meters west of second pole west of station sign "Mammoth Junction," 9 rails west of same sign, 8.52 meters north of center of track, in a flat rock in situ; ¾-inch copper bolt (C. & G. S. b. m. M ₃).....	6, 015. 569
Eureka, on Church Street, 45 centimeters from northeast corner of courthouse, 21 centimeters from courthouse wall, 10.45 meters northwest of northeast corner of railroad passenger station; 3-inch cap stamped "Elevation above sea, 6,394 feet. Datum U. P." (U. S. G. S. 6394).....	6, 396. 060
Tintic, 3 miles south of, 3 poles south of milepole 693, 10.57 meters east of center of track, 6.30 meters from north post of a rack for spare rails, 3-inch red-metal cap (C. & G. S. b. m. N ₃).....	5, 725. 146
McIntyre, opposite station sign, 1½ rails north of highway crossing sign, 18.20 meters east of center of track, 8.50 meters from center of highway, in top of stone post; bottom of hole (C. & G. S. b. m. O ₃).....	5, 581. 590
McIntyre, 3 miles south of, on railroad, 8½ poles north of milepole 686, in east end of south abutment of culvert 686 A, 22 centimeters from face of head wall, 18 centimeters from angle with wing wall, 3.04 meters east of center of track; red-metal disk (C. & G. S. b. m. P ₃).....	5, 446. 879
Jericho, 9 rails north of station sign, 2½ poles south of milepole 683, 40.40 meters east of center of track; 3-inch red-metal cap (C. & G. S. b. m. Q ₃)..	5, 311. 180
Jericho, 2 miles south of, 2½ poles south of milepole 681, 21.32 meters west of center of track, 24.8 meters from second pole and 27.9 meters from third pole from above milepole, 1 meter below grade; 3-inch red-metal cap (C. & G. S. b. m. R ₃).....	5, 226. 374
Jericho, 4½ miles south of, 2 poles south of milepole 678.5, in west end of north abutment of culvert 678 A, 12 centimeters from face of head wall, 18 centimeters from angle with wing wall, 3.26 meters west of center of track; brass bolt (C. & G. S. b. m. S ₃).....	5, 136. 472

Dyer, 15.80 meters southwest of third pole north of milepole 677, 26.70 meters west of center of track, 1.5 meters below grade, in top of stone post; bottom of hole (C. & G. S. b. m. T ₃).....	Feet. 5, 038. 018
Dyer, 1 mile south of, 17 meters south of milepole 676, 21.17 meters west of center of track, at grade; 3-inch red-metal cap (C. & G. S. b. m. U ₃)....	5, 040. 846
Champlin, opposite station sign, 13 poles south of milepole 673, 37.59 meters east of center of track, at subgrade of present siding; in top of stone post; bottom of hole (C. & G. S. b. m. V ₃).....	4, 953. 271
Lynn Junction, 3½ miles north of, opposite milepole 667, 21.62 meters east of center of track, 1 meter below grade; 3-inch red-metal cap (C. & G. S. b. m. W ₃).....	4, 816. 401
Lynn Junction, 2½ miles north of, opposite milepole 666, 21.32 meters east of center of track, 1 meter below grade; 3-inch red-metal cap (C. & G. S. b. m. X ₃).....	4, 792. 700
Lynn Junction, 2 miles north of, 11 poles north of milepole 665, in east end of south abutment of culvert 665 A, 10 centimeters from face of head wall, 16 centimeters from angle with wing wall, 3.71 meters east of center of track; ¾-inch brass bolt (C. & G. S. b. m. Y ₃).....	4, 785. 541
Lynn Junction, 91 meters northwest of northwest corner of passenger station, 14 poles south of milepole 664, 70.6 meters west of center of track; 3-inch red-metal cap (C. & G. S. b. m. Z ₃).....	4, 783. 934
Lynn Junction, 1½ miles west of, opposite milepole 662, 23.88 meters south of center of railroad track, 1 meter below grade; 3-inch red-metal cap (C. & G. S. b. m. A ₄).....	4, 779. 344

MERCUR QUADRANGLE.

[Latitude 40°-40° 30'; longitude 112°-112° 30'.]

From Stockton south along San Pedro, Los Angeles & Salt Lake R. R. to Lofgreen.

Stockton, 3 miles north of, 6½ poles north of milepole 743, in culvert 743 A, in east side of north abutment, 13 centimeters from face of head wall, 15 centimeters from angle with wing wall, 3.62 meters east of center of track; ¾-inch copper bolt (C. & G. S. b. m. R ₂).....	4, 996. 132
Stockton, 3 poles north of milepole 740, at northeast corner of Silver Avenue (street leading east from railroad station) and railroad right of way, 59.6 meters east of center of main track, 2.50 meters northwest of corner post of wire fence, in top of stone post; bottom of hole (C. & G. S. b. m. S ₂).....	5, 067. 762
Stockton, 1 mile south of, 3½ poles north of milepole 739, in culvert 739 A, in east side of north abutment, 4.32 meters east of center of track, 20 centimeters from face of head wall, 30 centimeters from angle with wing wall; ¾-inch copper bolt (C. & G. S. b. m. T ₂).....	5, 032. 828
Stockton, 3 miles south of, opposite first telegraph pole north of milepole 737 and 1.25 meters east of it, 8.77 meters west of center of track, 6.5 meters inside right-of-way fence; 3-inch red-metal cap (C. & G. S. b. m. U ₂)....	4, 973. 760
St. John, 11½ poles south of milepole 734, 42.5 meters west of center of track, 34.2 meters northwest from southwest corner of railroad station, 5 meters from west side of roadway, in top of stone post; bottom of hole (C. & G. S. b. m. V ₂).....	5, 020. 102
Ajax, 1 mile north of, opposite fourth pole north of milepole 728 and 7.33 meters east of it, 5.74 meters west of center of track; 3-inch red-metal cap (C. & G. S. b. m. W ₂).....	5, 040. 410
Ajax, 1 mile south of, 5½ poles north of milepole 726, at road crossing at grade, 6.12 meters east of center of track, 4.7 meters north of center of roadway, in filling for pole supporting a crossing warning post and 0.8 meter west of it; 3-inch red-metal cap (C. & G. S. b. m. X ₂).....	5, 062. 273

Faust, $3\frac{1}{2}$ poles south of milepole 721, across track from section foreman's house, opposite station sign, 30.8 meters east of center of main track, 31.55 meters northeast of northeast corner of telegraph office, in top of stone post; bottom of hole (C. & G. S. b. m. Y ₂).....	Fet. 5, 252. 345
Faust, 1 mile south of, on railroad, $9\frac{1}{2}$ poles south of milepole 720, on west side of north abutment of culvert 719 A, 16 centimeters from face of head wall, 27 centimeters from angle with wing wall, 5.22 meters west of center of track, about $2\frac{1}{2}$ meters below grade; red-metal disk (C. & G. S. b. m. Z ₂).....	5, 298. 031
Faust, 4 miles south of, on railroad, $3\frac{1}{2}$ poles north of milepole 717, on west side of north abutment of culvert 717 A, 26 centimeters from face of head wall, 32 centimeters from angle with wing wall, 5.72 meters east of center of track, about 2 meters below grade; $\frac{3}{8}$ -inch copper bolt (C. & G. S. b. m. A ₃).....	5, 401. 702
Vernon, $8\frac{1}{2}$ poles south of milepole 715, 19.12 meters west of center of track opposite station sign; 3-inch red-metal cap (C. & G. S. b. m. B ₃).....	5, 511. 360
Vernon, 1 mile south of, on railroad, $2\frac{1}{2}$ poles north of milepole 714, in east end of south abutment of culvert 714 A, 7 centimeters from face of head wall, 21 centimeters from angle with wing wall, 4 meters east of center of track; $\frac{3}{8}$ -inch copper bolt (C. & G. S. b. m. C ₃).....	5, 532. 774
Dunbar, $3\frac{1}{2}$ poles north of station sign, opposite and 5.9 meters west of sixth pole south of milepole 712, 17.67 meters west of center of track; 3-inch red-metal cap (C. & G. S. b. m. D ₃).....	5, 630. 071
Dunbar, 1 mile south of, 16.9 meters from fourth pole south of milepole 711, opposite a "C" post on east side of track, 10.17 meters west of center of track, 1 meter above grade; 3-inch red-metal cap (C. & G. S. b. m. E ₃)..	5, 670. 093
Lofgreen, 1 mile north of, $7\frac{1}{2}$ poles south of milepole 709, in east side of north abutment of culvert 708 C, 20 centimeters from face of head wall, 15 centimeters from angle with wing wall, 5.59 meters east of center of track; red-metal disk (C. & G. S. b. m. F ₃).....	5, 745. 851
Lofgreen, 5 rails north of station sign, 21.07 meters west of center of track, 4.85 meters northwest of nearest telegraph pole, in top of stone post; bottom of hole (C. & G. S. b. m. G ₃).....	5, 802. 682

MODENA QUADRANGLE.

[Latitude 37° 30'-38°; longitude 114°-114° 30'.]

From Modena northeast along San Pedro, Los Angeles & Salt Lake R. R. to Sahara.

Modena, about 2.9 miles southwest of, 46 meters southeast of center line of main track, 75 meters northeast of center of bridge 504 A (measured along track), 0.6 meter above top of rail, set vertically in top of large boulder lying at foot of first rocky point northeast of Tomas siding; copper bolt (C. & G. S. b. m. C ₃).....	5, 507. 889
Modena, 33.2 meters south of center line of main track, in yard of United States Weather Bureau station, 29 meters north of north face of bureau building, 5 meters north of flagstaff, 2.1 meters below top of rail; 3-inch red-metal cap (C. & G. S. b. m. D ₃).....	5, 461. 872
Modena, 7.1 meters south of center line of main track, on east one of two concrete piers of water tank which are connected with concrete intake, set vertically in cement; copper bolt (C. & G. S. b. m. E ₃).....	5, 469. 789
Modena, 51.2 meters south of center line of main track, 39 meters south of south side of railroad station, 0.9 meter below top of rail, on south side of highway, in top of stone post projecting 8 inches above ground; bottom of hole (C. & G. S. b. m. F ₃).....	5, 465. 186

82273°—Bull. 566—15—5

Modena, 30 meters north of center line of main track, on side of concrete bunk house toward track, 1.6 meters above ground; red-metal disk (C. & G. S. b. m. G ₈).....	Feet. 5, 473. 788
Escalante, directly opposite signboard, 63 meters north of center line of main track, 0.6 meter below top of rail; 3-inch red-metal cap (C. & G. S. b. m. H ₈).....	5, 303. 877
Morton, 2.4 miles west of, 0.8 mile west of milepole 517, 33 meters south of center line of track, set 1.1 meters below top of rail; 3-inch red-metal cap (C. & G. S. b. m. I ₈).....	5, 212. 844
Morton, directly opposite signboard, 26 meters south of center line of main track, 0.8 meter below top of rail, in top of stone post; bottom of hole (C. & G. S. b. m. J ₈).....	5, 176. 387
Beryl, directly opposite signboard, 47 meters south of center line of main track, set 1.3 meters below top of rail; 3-inch red-metal cap (C. & G. S. b. m. K ₈).....	5, 150. 656
Beryl, 520 meters east of signboard, 5 meters south of center line of main track, on steel base of north one of three westerly water-tank columns; surface within an outlined square (C. & G. S. b. m. L ₈).....	5, 152. 375
Beryl, 520 meters east of signboard, 20 meters south of center line of main track, set vertically in northwest concrete pier of windmill tower, opposite water tank, 1.5 meters below top of rail; red-metal disk (C. & G. S. b. m. M ₈).....	5, 146. 942
Sahara, 22 meters north of center line of main track, on side of concrete section house facing tracks, 0.9 meter above top of rail, 1.6 meters above ground; red-metal disk (C. & G. S. b. m. N ₈).....	5, 209. 219
Sahara, directly opposite signboard, 53 meters south of center line of main track, 1.4 meters below top of rail, in top of stone post; bottom of hole (C. & G. S. b. m. O ₈).....	5, 201. 837

OGDEN QUADRANGLE.

[Latitude 41°-41° 30'; longitude 111° 30'-112°.]

From Ogden east along Union Pacific R. R. to Croydon.

Ogden, on low hill west of, near San Pedro, Los Angeles & Salt Lake R. R., about 2,000 feet from Weber River, on site where Wheeler Observatory formerly stood, two sandstone piers about 5 feet above ground are still standing; on top of eastern one, square cut (C. & G. S. b. m. Transit).....	4, 370. 253
Ogden, on iron railroad bridge across Weber River, northeast of site of Wheeler Observatory, on northeast corner of east abutment; square cut (C. & G. S. b. m. A).....	4, 295. 825
Ogden, on corner of Twenty-fourth Street and Wall Avenue, on east side of brick building occupied by F. J. Kiesel, wholesale grocer, near southeast corner, in stone water table; copper bolt (U. S. C. & G. S. b. m. B).....	4, 299. 086
Ogden, on corner of Twenty-fifth Street and Wall Avenue, on brick and stone building occupied by the Healy Hotel, on the west side, 1 foot from the southwest corner; copper bolt (C. & G. S. b. m. C).....	4, 301. 218
Uinta, 60 feet east of large gate across tracks from railroad station, 30 feet south of road and 4 feet north of the fence, in top of stone post; bottom of hole (C. & G. S. b. m. D).....	4, 497. 409
Devils Gate, on second iron bridge east of, one-half mile from station sign, on top of northeast abutment; square cut (C. & G. S. b. m. E).....	4, 819. 400
Strawberry, on second iron bridge west of, in top of southeast corner of east abutment; square cut (C. & G. S. b. m. F).....	4, 835. 056

Morgan, 1½ miles west of, at milepole 1008, in stone culvert on south side of Union Pacific R. R. tracks; square cut (C. & G. S. b. m. G).....	Feet. 5, 037. 296
Morgan, 100 yards west of station, in space south of track, halfway between street and track, in top of stone post; bottom of hole (C. & G. S. b. m. H)...	5, 063. 021
Croydon, on first iron bridge east of, at foot of "Devil's Slide," in top of southeast corner of east abutment; square cut (C. & G. S. b. m. I).....	5, 238. 359

From Syracuse Junction along Oregon Short Line R. R. to Kaysville.

Syracuse Junction, one-half mile southwest of, in southeast angle of crossing of Oregon Short Line R. R. and Rio Grande Western Ry., 9 meters south of Oregon Short Line R. R. track and 8 meters east of Rio Grande Western Ry. track, 0.5 meter east of Rio Grande Western Ry. right of way, in top of stone post; bottom of hole (C. & G. S. b. m. D ₁).....	4, 434. 666
Syracuse Grove, about 1½ miles north of, about 4 miles west of Syracuse Junction, on pasture land owned by Joseph Holt, successor to Cato Love, about 360 meters east of original site for station of Oregon Short Line R. R., in southeast angle of crossroads, 51 meters from fence on north, 63 meters from fence on west, in capstone of monument about 9 feet high which marks base end and can be seen about one-fourth mile; copper bolt (C. & G. S. b. m. Salt Lake northwest base).....	4, 230. 553
Kaysville, 4½ miles west of, in school sec. 16, T. 3 N., R. 2 W., about 5 miles southeast of property of David Cook, Mormon Bishop of the Syracuse ward, in large pasture, about three-eighths mile west of country road, about 30 meters south of barbed-wire fence, in capstone of monument about 9 feet high which marks base end and can be seen about 2 miles; copper bolt (C. & G. S. b. m. Salt Lake southeast base)	4, 212. 393
Syracuse, 1 mile east of, about 700 meters south of railroad spur track, about 100 meters north of county road, in pasture owned by James T. Walker, about one-fourth mile west of residence of David Cook, in stone marking eighth kilometer from southeast end of Salt Lake base; copper bolt (C. & G. S. b. m. K. S. 8)	4, 240. 660
Layton, 2¼ miles northwest of, 7 meters northwest of ninth telegraph pole southwest of milepole 12, 18 meters northeast of railroad track, 1 meter northeast of right of way; 3-inch red-metal cap (C. & G. S. b. m. H ₁)..	4, 447. 741
Layton, 40 meters northeast of track, at entrance to Farmers' Union General Merchandise Building, about 0.15 meter from southeast end and about 0.1 meter from northeast edge of doorsill; red-metal disk (C. & G. S. b. m. I ₁).....	4, 355. 749
Kaysville, in Oregon Short Line R. R. station grounds, about 18 meters west of water tank, 31 meters east of track, on south side of street leading eastward through the town, in top of stone post; bottom of hole (C. & G. S. b. m. J ₁).....	4, 293. 485

PANACA QUADRANGLE.

[Latitude 37° 30'–38°; longitude 114°–114° 30'.]

From Uvada along San Pedro, Los Angeles & Salt Lake R. R. to Tomas.

Uvada, directly opposite signboard, 30 meters southwest of center line of main track, 0.5 meter below top of rail, in top of stone post; bottom of hole (C. & G. S. b. m. A ₂).....	5, 654. 372
Tomas, 23 meters southeast of signboard (measured along the track), 38 meters southeast of center line of main track, at foot of low, rocky ridge, 1.2 meters below top of rail; 3-inch red-metal cap (C. & G. S. b. m. B ₂)..	5, 522. 555

PROMONTORY POINT QUADRANGLE.

[Latitude 41°-41° 30'; longitude 112°-112° 30'.]

Along Oregon Short Line R. R.

Hot Springs, one-third of a mile south of milepole 9, in right of way, 400 feet south of cattle guard south of station, 40 feet east of tracks, in top of stone post; bottom of hole (C. & G. S. b. m. P).....	Feet. 4, 271. 228
Willard, behind and on a line with the south side of station, 100 feet east of tracks, 10 feet east of wagon road, in top of stone post; bottom of hole (C. & G. S. b. m. Q).....	4, 265. 913
Evona, 1½ miles south of, north of about sixth telegraph pole north of milepost 3, 21 meters west of Oregon Short Line R. R. track, about 5 meters south of public road, about 0.6 meter west of right of way, in top of stone post; bottom of hole (C. & G. S. b. m. A).....	4, 335. 775
Roy, 1½ miles north of, opposite milepost 5, 15 meters east of Oregon Short Line R. R. track, and 0.6 meter west of right of way fence; 3-inch red-metal cap (C. & G. S. b. m. B ₁).....	4, 405. 726
Roy, 0.2 mile southeast of, opposite second telegraph pole south of milepole 6½, 21 meters east of Oregon Short Line R. R. track, 4 meters east of right of way, in top of stone post; bottom of hole (C. & G. S. b. m. C ₁).....	4, 436. 421

SALERATUS PASS QUADRANGLE.

[Latitude 41°-41° 30'; longitude 111°-111° 30'.]

From Echo northeast along Union Pacific R. R. to Utah-Wyoming State line.

Echo, 4½ miles east of, 4½ miles west of Emory, in northeast corner of east abutment of an iron bridge; square cut (C. & G. S. b. m. K).....	5, 739. 586
Emory, in a field 100 yards south of water tank and 50 feet north of railroad track, in top of stone post; bottom of hole (C. & G. S. b. m. L).....	5, 915. 687
Castle Rock, near a fence, 200 feet north of railroad tracks, directly opposite depot, in top of stone post; bottom of hole (C. & G. S. b. m. M).....	6, 232. 530
Wasatch, on side of a hill, a little north of road, directly behind station, 100 yards north of tracks, in stone post; bottom of hole (C. & G. S. b. m. N).....	6, 816. 037
Wyuta, 200 yards west of station sign, 25 feet south of tracks, in first stone culvert west of station; square cut (C. & G. S. b. m. O).....	6, 733. 110

SALT LAKE QUADRANGLE.

[Latitude 40° 30'-41°; longitude 112°-112° 30'.]

From Riter southwest along San Pedro, Los Angeles & Salt Lake R. R. to Tooele.

Riter, 1 mile east of, 2 poles east of milepole 771, in culvert 771 A, on east side of south abutment, 4.22 meters south of center of track, 27 centimeters from south face of the culvert, and 20 centimeters from edge of angle with wing wall; ¾-inch copper bolt (C. & G. S. b. m. B ₂).....	4, 218. 594
Garfield, 3 miles east of, near milepole 769, on east side of south abutment of culvert 769 A, 3.04 meters south of center of track, 18 centimeters from north face and 21 centimeters from northeast face of abutment; ¾-inch copper bolt (C. & G. S. b. m. C ₂).....	4, 222. 268
Garfield, 1 mile east of, 3½ poles east of milepole 767, 2.73 meters south of center of the track, on south abutment of culvert 767 A, 13 inches from angle formed by wing and wall, 9½ inches from inner corner of culvert; ¾-inch copper bolt (C. & G. S. b. m. D ₂).....	4, 226. 028
Garfield, in concrete building of Garfield Banking Co., in north face, 0.69 meter from northeast corner of building occupied by drug store of American Trading Co., 1.36 meters above sidewalk; red-metal disk (C. & G. S. b. m. E ₂).....	4, 239. 844

Garfield, opposite a point 12½ rails west from telegraph office in station, 46 meters south of center of track, in a fence corner and about 18 inches from each fence; 3-inch red-metal cap (C. & G. S. b. m. F₂).....	Feet. 4, 224. 375
Garfield, 1½ miles west of, opposite Garfield smelter, on west end of north abutment of culvert 763 A, 14 centimeters from north face of abutment and 11 centimeters from edge of wing wall; copper bolt (C. & G. S. b. m. G₂).....	4, 227. 478
Garfield, 3 miles west of, about 1 mile west of Garfield smelter, 4½ poles west of milepole 763 on west slope of small knoll south of track, just west of long fill, about 300 meters from large prominent bluff on lake shore, which marks line between Salt Lake and Tooele counties, 22.50 meters from center of track, 7.5 meters outside right of way, about 5½ feet below and 16 meters from top of knoll, about 1 meter higher than grade, leaded vertically into sloping surface of rock; copper bolt (C. & G. S. b. m. H₂).....	4, 234. 533
Lake Point, one rail east of station sign, 1½ poles west of milepole 762, 38.60 meters north of center of track, 5 feet lower than track, between section house and tool house, 28 paces from edge of bluff over Great Salt Lake, in top of sandstone post 2½ feet long and 6 inches square, lettered "U. S. B. M." resting on solid rock and projecting 2 inches above ground; bottom of hole ¼ inch deep and 1 inch square (C. & G. S. b. m. I₂).....	4, 240. 273
Lake Point, 1 mile west of, 2 poles west of milepole 761, 9½ rails west of concrete culvert 761 A, 13.9 meters south of center of track, about 3 feet inside of right-of-way fence, 3 feet lower than rails, on highest point of pyramidal rock in place about 3 by 2½ feet and 1½ feet above ground, with letters "U. S." cut roughly on sloping side toward tracks; square cut (C. & G. S. b. m. J₂).....	4, 259. 103
Morris, 1 mile north of, 2 rails south of milepole 759, 17 meters east of center of track, 1.76 meters east of wire fence, 58 paces south of fence corner, on sloping surface of large rock in place, 45 centimeters from south edge and 37 centimeters from east edge of rock, about 6 inches lower than highest point of rock, rock is marked "U. S." on top of copper bolt set in lead; cross cut (C. & G. S. b. m. K₂).....	4, 345. 014
Morris, 1½ rails north of milepole 758, 25 feet north of main crane, 5.79 meters west of center of track, about 4 feet below grade line, in hard rock in place with surface 1 by 2 feet exposed; a cross on top of copper bolt set in lead (C. & G. S. b. m. L₂).....	4; 379. 994
Erda, 2 poles south of milepole 754, 150 feet west-southwest of corner of station, 59.17 meters west of center line of railroad, 180 feet north of large rock in place, with 6 by 10 by 12 feet exposed, 3 feet east and inside of right-of-way fence, on a rocky ledge with 6 inches exposed; 3-inch red-metal cap (C. & G. S. b. m. M₂).....	4, 535. 811
Erda, 2 miles west of, 7 poles west of milepole 752, in concrete culvert 751 B, on east side of north abutment, 3.73 meters north of center of track, 17 centimeters from face of abutment and 26 centimeters from edge of wing wall; ¾-inch copper bolt (C. & G. S. b. m. N₂).....	4, 635. 512
Shields, 6½ poles south of milepole 750, 10 rails south of station sign, 20.22 meters west of center of track, 3 feet east of wire right-of-way fence; 3-inch red-metal cap (C. & G. S. b. m. O₂).....	4, 720. 309
Tooele, 1 mile east of, 3 poles east of milepole 747, in culvert 747 A, in south end of east abutment, 4.85 meters south of center of track, 18 centimeters from face of head wall, 20 centimeters from edge of wing wall; red-metal disk (P₂).....	4, 829. 476
Tooele, 1 mile south of, opposite milepole 745 and 1.80 meters east of it, 3.07 meters west of center of track, in top of stone post; bottom of hole (C. & G. S. b. m. Q₂).....	4, 923. 173

SNOWVILLE QUADRANGLE.

[Latitude $41^{\circ} 30' - 42^{\circ}$; longitude $112^{\circ} 30' - 113^{\circ}$.]

From Promontory west along Southern Pacific R. R. to Monument.

Promontory, on the right of way, on line joining west end of station with east edge of door to post office, 45.1 meters north of main track, 4.2 meters south of north line fence, 48.7 meters from northwest corner of station, in top of stone post; bottom of hole (C. & G. S. b. m. Y ₉).....	Feet. 4, 902. 402
Promontory, near, at milepole 778, on the right of way, 0.7 meter north of south line fence, 15 meters south of track, about 1.2 meters below track; 3-inch red-metal cap (C. & G. S. b. m. Z ₉).....	4, 871. 460
Promontory, near, between Promontory and Rozel, on the railroad right of way, 3 telegraph poles east of milepole 775, 8.1 meters north of south line fence, about 1.8 meters above track; 3-inch red-metal cap (C. & G. S. b. m. A ₁₀).....	4, 728. 393
Rozel, on railroad right of way, 46 meters east of east end of water tank, 14.6 meters south of main track, 0.8 meter north of south line fence, in top of stone post; bottom of hole (C. & G. S. b. m. B ₁₀).....	4, 593. 370
Rozel, near, 0.5 meter south of milepole 770, on railroad right of way, 15.4 meters south of main track; 3-inch red-metal cap (C. & G. S. b. m. C ₁₀)..	4, 589. 791
Lake, near, 1.42 meters north of milepole 766, on right of way of railroad, 10.8 meters south of track, about 1.5 meters below track; 3-inch red-metal cap (C. & G. S. b. m. D ₁₀).....	4, 349. 004
Lake, 1.8 meters north of milepole 763, on railroad right of way, 15.4 meters south of main track and about 0.6 meter below it; in top of stone post; bottom of hole (C. & G. S. b. m. E ₁₀).....	4, 213. 364
Lake, near, 1.5 meters north of fourth telegraph pole east of milepole 759, on right of way, 13.2 meters south of track; 3-inch red-metal cap (C. & G. S. b. m. F ₁₀).....	4, 223. 095
Monument, at west end of siding, on railroad right of way, 0.8 meter south of seventh telegraph pole west of pole that carries station sign, 10.8 meters north of track, in top of stone post; bottom of hole (C. & G. S. b. m. G ₁₀)..	4, 226. 474

APPENDIX B.

SECONDARY ELEVATIONS.

Secondary elevations from records and topographic maps of the United States Geological Survey, including altitudes of well-known summits and other useful elevations, are given below. These elevations are approximate only and should not be used for accurate work:

Locality.	Quadrangle.	County.	Elevation.
Abajo Peak.....	Abajo.....	San Juan.....	11,445
Adams Head.....	Kanab.....	Garfield.....	10,360
Agassiz Mountain.....	Hayden Peak.....	Summit-Wasatch.....	12,460
Ant Knolls.....	Cottonwood special.....	Utah-Wasatch.....	9,882
Bald Knoll.....	Strawberry Valley.....	Wasatch.....	10,079
Bald Mountain triangulation station.....	Coalville.....	Summit-Wasatch.....	9,353
Baldy Mountain.....	Cottonwood special.....	Salt Lake-Utah.....	11,069
Baldy Peak.....	Beaver.....	Beaver.....	12,000
Bartles Mountain.....	Price River.....	Emery.....	10,050
Bear Lake, water surface.....	Randolph.....	Rich.....	5,924
Bear Mountain.....	Marsh Peak.....	Vinta.....	7,674
Bear Valley Peak.....	Kanab.....	Iron.....	10,500
Belknap Peak.....	Beaver.....	Beaver-Piute.....	12,200
Black Mountain triangulation station.....	Randolph.....	Rich.....	7,696
Brian Head.....	Kanab.....	Iron.....	11,000
Bruin triangulation station, 200 feet west of, in rim rock; tablet stamped "10270" (vertical angle bench mark).....	Sunnyside.....	Carbon.....	10,270
Bruin triangulation station, 5.5 miles north- east of, in NE. $\frac{1}{4}$ sec. 20, T. 13 S., R. 15 E.; tablet stamped "8510" (vertical angle bench mark).....	do.....	do.....	8,510
Buckhorn Mountain.....	Tintic special.....	Juab-Utah.....	7,852
Buckhorn Knoll.....	Strawberry Valley.....	Wasatch.....	9,155
Catharine Lake, water surface.....	Cottonwood special.....	Salt Lake.....	9,921
Catherine Mountain.....	Beaver.....	Millard.....	10,000
Charleston.....	Strawberry Valley.....	Wasatch.....	5,466
Clayton Peak triangulation station.....	Park City.....	Salt Lake-Wasatch.....	10,728
Clipper Peak.....	Bingham mining map.....	Salt Lake-Tooele.....	9,207
Crawford Mountain.....	Randolph.....	Rich.....	7,983
Currant Peak triangulation station.....	Strawberry Valley.....	Wasatch.....	10,584
Devils Castle.....	Cottonwood special.....	Salt Lake-Utah.....	10,992
Dutton Mountain.....	Beaver.....	Garfield.....	10,800
Elenora Mountain.....	St. George.....	Iron.....	7,750
Elizabeth Mountain triangulation station.....	Hayden Peak.....	Summit.....	10,390
Emmons Mountain.....	Gilbert Peak.....	Wasatch.....	13,428
Eureka Peak triangulation station.....	Tintic mining map.....	Juab.....	7,909
Fish Springs Range.....	Fish Springs.....	do.....	8,507
Flagstaff Mountain.....	Park City.....	Salt Lake-Wasatch.....	9,206
Gilbert Peak triangulation station.....	Gilbert Peak.....	Summit-Wasatch.....	13,422
Grampian Hill.....	Frisco special.....	Beaver.....	7,322
Granger Mountain.....	Strawberry Valley.....	Utah.....	8,313
Granite Mountain.....	Fish Springs.....	Juab.....	6,500
Gray Head.....	Price River.....	Wasatch.....	9,250
Great Salt Lake.....	Promontory Point.....	Boxelder.....	4,208
Do.....	Saltair.....	Davis.....	
Hawkins Peak.....	St. George.....	Washington.....	7,500
Hayden Peak.....	Hayden Peak.....	Summit.....	12,500

Locality.	Quadrangle.	County.	Elevation.
Haystack Mountain, on top of sharp peak, 3 miles north by 0.5 mile east of Soldier triangulation station, on divide between Cow Canyon and Ninemile, in rock; tablet stamped "8833" (vertical angle bench mark).	Sunnyside.....	Carbon.....	8,833
Haystack Peak triangulation station.....	Fish Springs.....	Juab.....	12,101
Heber Mountain.....	Strawberry Valley.....	Wasatch.....	10,275
Hilgard Mountain.....	Fish Lake.....	Sener.....	11,480
Honey Comb Cliffs.....	Cottonwood special.....	Salt Lake.....	10,472
Hoyt Peak.....	Coalville.....	Summit.....	10,487
Indian Head.....	Price River.....	Wasatch.....	10,248
Iron Mountain triangulation station.....	Iron Springs special.....	Iron.....	9,810
Jupiter Hill.....	Park City.....	Summit-Wasatch.....	7,817
Kaiparowits Peak.....	Escalante.....	Garfield.....	10,007
Kings Peak (highest point in Utah yet determined).	Gilbert Peak.....	Wasatch.....	9,180
Lamotte Peak triangulation station.....	Hayden Peak.....	Summit.....	13,496
Ledy Peak triangulation station.....	Marsh Peak.....	Summit.....	12,750
Little Creek Peak.....	Kanab.....	Uinta.....	12,013
Little Mountain triangulation station.....	Marsh Peak.....	Iron.....	10,010
Lone Hill.....	Park City.....	Uinta.....	8,622
Lovelia Mountain.....	Hayden Peak.....	Wasatch.....	8,886
Mammoth Peak triangulation station.....	Tintic mining map.....	Summit-Wasatch.....	13,250
Markham Peak.....	Bingham mining map.....	Juab-Utah.....	8,104
Marsh Peak triangulation station.....	Marsh Peak.....	Tooele-Salt Lake.....	8,969
Martha Lake, water surface.....	Cottonwood special.....	Uinta.....	12,219
Marvine Mountain.....	Fish Lake.....	Salt Lake.....	8,594
Mary Lake, water surface.....	Cottonwood special.....	Sevier.....	11,800
Marsvale Peak.....	Beaver.....	Salt Lake.....	8,490
Millcent Mountain.....	Cottonwood special.....	Plute.....	10,359
Mollies Nipple.....	Strawberry Valley.....	Salt Lake.....	10,452
Monroe Peak.....	Beaver.....	Utah.....	7,857
Mountain Lake, water surface.....	Cottonwood special.....	Plute.....	11,240
North Burro Peak triangulation station.....	Gilbert Peak.....	Salt Lake.....	9,862
Notch Peak triangulation station.....	Fish Springs.....	Summit.....	12,680
Packard Peak.....	Tintic special.....	Millard.....	9,725
Patmos Logical triangulation station, 10 feet south of; tablet stamped "9845" (vertical angle bench mark).	Sunnyside.....	Juab-Utah.....	7,828
Phil Pico Mountain triangulation station.....	Marsh Peak.....	Carbon.....	9,845
Pinyon Peak.....	Tintic special.....	Uinta.....	9,577
Pittsburg Lake, water surface.....	Cottonwood special.....	Utah.....	7,702
Quartzite Hill.....	Frisco special.....	do.....	9,425
Reade and Benson Ridge.....	Cottonwood special.....	Beaver.....	9,648
Robinson Peak triangulation station.....	Tintic mining map.....	Salt Lake.....	10,551
Scott Hill.....	Park City.....	Juab.....	6,826
Sheep Canyon, at head of, in rim rock on Bartlets Mountain, 5.5 miles east of Soldier triangulation station; tablet stamped "10046" (vertical angle bench mark).	Sunnyside.....	Summit.....	10,127
Silver Lake, water surface.....	Cottonwood special.....	Carbon.....	10,046
Sloux Peak triangulation station.....	Tintic mining map.....	Salt Lake.....	8,716
Soldier triangulation station, 200 feet south of, in rim rock; tablet stamped "9220" (vertical angle bench mark).	Sunnyside.....	Utah.....	8,094
South Burro Peak.....	Gilbert Peak.....	Carbon.....	9,220
Spanish Fork Peak.....	Salt Lake.....	Summit.....	12,716
Strawberry Mountain.....	Strawberry Mountain.....	Utah.....	10,000
Sunnyside, 3.2 miles east by 0.8 mile north of, 0.5 mile west of main divide on top of round hill on spur ridge, north side of No. 2 Canyon; tablet stamped "9335" (vertical angle bench mark).	Sunnyside.....	Utah-Wasatch.....	9,756
Sunnyside, 1 mile west by 4.2 miles north of, on top of sharp peak at head of Bear Canyon; tablet stamped "9030" (vertical angle bench mark).	do.....	Carbon.....	9,335
Sunrise Peak triangulation station.....	Tintic special.....	do.....	9,030
Sunset Peak.....	Cottonwood special.....	Juab.....	7,693
Swasey Peak triangulation station.....	Fish Springs.....	Salt Lake - Utah - Wasatch.....	10,656
Swett Hills.....	Iron Springs special.....	Millard.....	9,586
Swett Peak.....	do.....	Iron.....	7,039
		do.....	6,725

Locality.	Quadrangle.	County.	Elevation.
Tatow Knob.....	Fish Springs.....	Millard.....	8,455
Taylor Mountain.....	Marsh Peak.....	Uinta.....	10,182
Teat Mountain.....	Strawberry Valley.....	Utah.....	8,599
Terrill Mountain.....	Fish Lake.....	Sevier.....	11,000
Three Peaks.....	Iron Springs special.....	Iron.....	6,405
Timpanogas Peak.....	Salt Lake.....	Utah.....	11,957
Tintic Mountain.....	Tintic special.....	Juab-Utah.....	8,214
Tokewanna Peak.....	Hayden Peak.....	Summit.....	13,200
Topas Mountain.....	Fish Springs.....	Juab.....	7,110
T. 12 S., R. 14 E., sec. 33, 1.2 miles northeast of Stone cabin, on top of hill on ridge between Stone Cabin Creek and north fork of that creek; tablet stamped "9044" (vertical angle bench mark).	Sunnyside.....	Carbon.....	9,044
T. 12 S., R. 15 E., NE. $\frac{1}{4}$ sec. 29, 0.5 mile west of junction of Dry Canyon and Stone Cabin Creek, 7.5 miles northeast of Bartlet's Moun- tain tablet, in ledge of rock outcrop of ridge; tablet stamped "7723" (vertical angle bench mark).	do.....	do.....	7,723
Treasure Hill.....	Tintic special.....	Juab.....	6,852
Trout Peak triangulation station.....	Marsh Peak.....	Uinta.....	10,509
Tuscarora.....	Cottonwood special.....	Salt Lake.....	10,650
Twin Lakes, water surface.....	do.....	do.....	9,397 9,424
Twin Peaks.....	do.....	Salt Lake-Utah.....	11,434 11,491
Do.....	Strawberry Valley.....	Utah-Wasatch.....	9,741
Twin Peaks triangulation station.....	Randolph.....	Rich.....	7,690
Watson Mountain.....	Hayden Peak.....	Summit.....	11,500
Wheeler Mountain.....	Ashley.....	Uinta.....	7,750
Wilson Peak.....	Gilbert Peak.....	Summit-Wasatch.....	13,095
Wolverine Mountain.....	Cottonwood special.....	Salt Lake.....	10,795

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